New Course Request

Indiana University

Check Appropriate Boxes: Undergraduate credit [x] Graduate credit [ ] Professional credit [ ]

1. School/Division: CLAS/Dept. of Criminal Justice
2. Academic Subject Code: CJUS
3. Course Number: K300 (must be cleared with University Enrollment Services) 4. Instructor: Xu
5. Course Title: Techniques of Data Analysis

Recommended Abbreviation (Optional) (Limited to 32 Characters including spaces) F/08

6. First time this course is to be offered (Semester/Year): F/08
7. Credit Hours: Fixed at _______ or Variable from _______ to _______
8. Is this course to be graded S-F (only)? Yes [x] No [ ]
9. Is variable title approval being requested? Yes [ ] No [x]
10. Course description (not to exceed 50 words) for Bulletin publication:

   It covers the properties of single variables, the measurement of association between pairs of variables, and statistical inference. Additional topics, such as the analyses of qualitative and aggregated data, address specific criminal justice concerns. Credit given for only one of the following: CJUS K300, Sociology S351, Economics E270, Psychology P354, or Mathematics K300 or K310.

11. Lecture Contact Hours: Fixed at _______ or Variable from _______ to _______
12. Non-Lecture Contact Hours: Fixed at _______ or Variable from _______ to _______
13. Estimated enrollment: _______ of which _______ percent are expected to be graduate students.
14. Frequency of scheduling: F/SP [x] Will this course be required for majors? Yes [ ] No [x]
15. Justification for new course: Elimination of SPEA

16. Are the necessary reading materials currently available in the appropriate library? _______
17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.
18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant.
19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by:

[Signature] Date: 3/5/08

Department Chairman/Division Director

Dean of Graduate School (when required)

Approved by:

[Signature] Date: 3/12/08

Dean of Enrollment Services

Chancellor/Vice-President

University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

UPS 724 University Enrollment Services Final—White; Chancellor/Vice-President—Blue; School/Division—Yellow; Department/Division—Pink; University Enrollment Services Advance—White.
K300 – Techniques of Data Analysis
Fall 2008

Instructor: Dr. Qiang Xu
Office: Weikamp 2221
Office Phone: 574-520-4592
Office Hours: Monday: 2:00pm-4:00pm
Thursday: 9:00am-11:00am
or by appointment
E-mail: qiaxu@iusb.edu

Course Description

This course is designed to be an introduction to statistical analysis used in social science. The course content will cover basic statistical concepts and various statistical techniques commonly used in research. Although there is no strict prerequisites for this course, proficiency in basic algebra is expected to facilitate the learning process. This course also provides trainings of SPSS through in-class demonstrations and homework assignments.

Course Objectives

- Understand the fundamental concepts of statistics.
- Develop skills in data processing, description, analyzing, and results interpretation.
- Acquire preliminary knowledge in conducting quantitative research project.
- Apply appropriate statistical techniques in problem solving and decision making.

Required Text:


IUSB Email Account Requirements: IUSB issued email address is an official means of communication between students and faculty. You will also need this email account to access the Oncourse website where you can access the course learning material and your grade progress.

Grading:

Your course grade will be determined by performance on three exams (70% total, 20% for each of the first two exams, and 30% for the final exam), five homework assignments (20%) and class involvement (10%), including participation in class discussion, quizzes and practice.

Final course grades are assigned as follows: below 60% = F, 60-62 = D-, 63-66 = D, 67-69 = D+, 70-72 = C-, 73-76 = C, 77-79 = C+, 80-82 = B-, 83-86 = B, 87-89 = B+, 90-92 = A-, 93-96 = A, 97-100 = A+
Reading Requirements:
Please make sure that you spend reasonable amount of time in reading the required textbook material before each class meet. Class practices and discussions are based on the assumption that you have completed the required reading before the class.

Academic Honesty:
Students are expected to maintain the highest level of integrity in their academic work. IUSB has specific requirements for record-keeping and for notification of the student and academic dean. **It is the responsibility of the student to know of the prohibited actions such as cheating, fabrication, plagiarism, academic, and personal misconduct, and thus, to avoid them.** All students are held to the standards outlined in the code. Please reference the entire code for a complete listing (*Code of Student Rights, Responsibilities, and Conduct*). Any violation may result in serious academic penalty, ranging from receiving a warning, to failing the assignment, to failing the course, to expulsion from the University.

Disability Statement: If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Director of Disabled Student Services (Administration Building, room 149, telephone number 520-4832), as soon as possible to work out the details. Once the Director has provided you with a letter attesting to your needs for modification, bring the letter to me. For more information, please visit the web site for Office of Disabled Student Services www.iusb.edu/~sbdss/services.shtml

Accommodations For Religious Observances Statement: If any student will require academic accommodations for a religious observance, please provide me with a written request to consider a reasonable modification for that observance by the end of the second week of the course. Contact me after class, during my office hours, or by individual appointment to discuss the issue. If after discussion we reach no consensus, either party or both should seek the advice of the Department Chair or the Dean, and if no consensus is reached, then the advice of the Vice Chancellor of Academic Affairs (“VCAA”). Either the instructor or the student may appeal the VCAA’s decision to the Office of Affirmative Action within ten business days of the determination.

Make-up Exam Policy:
Exams may be “made-up” with a written explanation. You need to have extraordinary handicap and provide necessary documentations to justify your absence from the exam.

Attendance and Participation
Your participation in class discussions is appreciated which will make this course an enjoyable and lively learning experience. Please feel to voice your opinions on relevant topics of conversation and share your experience with the class.
Due to the nature of this course some topics of discussion can be of a controversial nature. As such, when voicing your opinions, please use sensitive language and be open to the values and opinions of others.

**Cell phones and pagers should be turned off before entering the classroom.**
Tentative Lecture Schedule

Required Readings: Ch. 1.

Required Readings: Ch. 2.

Week 3. Sept. 12, 14. Graphic Presentation  
Required Readings: Ch. 3.

Required Readings: Ch. 4.

Week 5. Sept. 26, 28. Measures of Variability  
Required Readings: Ch. 5.

Required Reading: Ch. 6.  
1st Exam: Oct. 3.

Week 7. Oct. 10, 12. Measures of Association for Nominal and Ordinal Variables  
Required Reading: Ch. 7.

Week 8 Oct 17, 19. Regression and Correlation  
Required Reading: Ch. 8

Required Reading: Ch. 9.

Week 10. Oct. 31, Nov. 2. Sampling and Sampling Distributions  
Required Reading: Ch. 10.

Required Reading: Ch. 11.  
2nd Exam: Nov. 7.

Week 12. Nov. 14, 16. Testing Hypothesis  
Required Reading: Ch. 12.

Required Reading: Ch. 13.

Required Reading: Ch. 14.

Final Exam: Dec. 12
Undergraduate Program

Courses

Criminal Justice Course Descriptions
Approved Optional Courses for Majors

Criminal Justice Course Descriptions

Please note: these may vary as courses may be added and courses may no longer be offered

P100 Introduction to Criminal Justice (3 cr.) S&H Historical and philosophical background, structure, functions, and operation of the criminal justice system in the United States. Introduction to and principles of formal behavior control. I Sem., II Sem., SS.

P150 Introductory Topics in Criminal Justice (3 cr.) S&H Introduction to a specific topic related to crime and justice. Topics vary each semester: see listing in the online Schedule of Classes. May be repeated with different topics for a maximum of 6 credit hours. Credit will not count toward requirements of the major or minor.

P200 Theories of Crime and Deviance (3 cr.) S&H Critical examination of biological, psychological, and sociological theories of crime and deviance. Examination of individual, group, and societal reactions to norm-violating behaviors. I Sem., II Sem., SS.

P202 Alternative Social Control Systems (3 cr.) S&H Structure and operation of institutions, such as family, religion, education, and mass media, that create norms and socialize individuals. Interaction of these with one another and with the criminal justice system. I Sem., II Sem.

P210 Service Learning Experience in Criminal Justice (1 cr.) C: Enrollment in an approved criminal justice course and approval of instructor. Students work with community groups related to criminal justice issues. Requirements typically include training, weekly meetings with a community group, related readings, and written reflective statements. Credit will not count towards requirement of major or minor. Students may complete no more than a maximum of 6 credit hours for any combination of P210, P281, and P481.

P250 Issues in Criminal Justice (3 cr.) S&H Thorough review and analysis of issues currently facing the criminal justice system. Topics vary each semester: see listing in the online Schedule of Classes. May be repeated with different topics for a maximum of 6 credits.

P281 Internship Transfer Hours in Criminal Justice (1-3 cr.) This course is designed for students who want to transfer internship credit hours completed at another institution. Students currently enrolled at IU Bloomington cannot register for this class. Credit will not count toward requirements of the major, certificate, or minor. Students may complete no more than a maximum of 6 credit hours for any combination of P210, P281, and P481.

P290 The Nature of Inquiry (3 cr.) Introduction to research methodology, nature of scientific inquiry, research design, basic research methods, and presentation of research findings. I Sem., II Sem.

K300 Techniques of Data Analysis (3 cr.) N&M CJUS K300 is the second half of a research methods-data analysis sequence. It covers the properties of single variables, the measurement of association between pairs of variables, and statistical inference. Additional topics, such as the analyses of qualitative and aggregated data, address specific criminal justice concerns. Credit given for only one of the following: CJUS K300, Sociology S371,

http://www.indiana.edu/~crimjust/undergraduate_course.php?nav=undergraduate

3/20/2008