Cover Sheet: Request 10443

QMB7565 Statistical Research Methods (DBA)

Info

Process	Course|New|Ugrad/Pro
Status	Pending
Submitter	Hatch,Tiffany G tiffany.hatch@warrington.ufl.edu
Created	9/23/2015 8:40:39 AM
Updated	10/1/2015 3:45:45 PM
Description	This course will help students understand concepts in statistics. This will enable them to undertake advanced econometrics courses later on. Topics covered in the course will be: summary statistics, estimations, hypothesis testing, sample size estimations, correlations, multivariate regressions, testing for patterns, and testing independence.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CBA - Information Systems and Operations Management 011707000	Brawner, Patricia A		9/23/2015
No document changes					
College	Approved	CBA - College of Business Administration, Warrington	Mathis, Renee C		10/1/2015
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			10/1/2015
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|New for request 10443

Info

Request: QMB7565 Statistical Research Methods (DBA)
Submitter: Mathis,Renee C rcmathis@ufl.edu
Created: 10/1/2015 2:40:49 PM
Form version: 8

Responses

Recommended Prefix: QMB
Course Level : 7
Number : 565
Lab Code : None
Course Title: Statistical Research Methods
Transcript Title: Stat Research Methods
Effective Term : Spring
Effective Year: 2016
Rotating Topic?: No
Amount of Credit: 3
If variable, # min : *No response*
If variable, # max: *No response*
Repeatable Credit?: No
If repeatable, # total repeatable credit allowed: *No response*
S/U Only?: No
Contact Type : Regularly Scheduled
Degree Type: Professional
If other degree type, specify : *No response*
Weekly Contact Hours : 3
Category of Instruction : Advanced
Delivery Method(s): On-Campus
Course Description : This course will help students understand concepts in statistics. This will enable them to undertake advanced econometrics courses later on. Topics covered in the course will be: summary statistics, estimations, hypothesis testing, sample size estimations, correlations, multivariate regressions, testing for patterns, and testing independence.
Prerequisites : None
Co-requisites : None
Rationale and Placement in Curriculum : This course is required for all DBA students. Students must pass this 1-week course in order to progress into remainder of DBA curriculum, which has advanced econometric courses throughout. Proficiency in statistics is necessary for the research requirements in the DBA program. QMB 7565 is a course specifically designed for the Doctor of Business Administration (DBA) program which is a professional degree offered as a track under the Ph.D. degree. The course is a 3 credit course taken at the outset of Year 1 in preparation for the subsequent 6 terms with 36 hours of contact.
Course Objectives : Knowledge of statistics is important for any researcher who needs to extract information from quantitative or qualitative data. My purpose in this course is to introduce statistical tools required for hypothesis testing and linear models. This course should provide you with a package of statistical concepts and procedures that will help you understand how and why statistical techniques work and how to employ them in your research.
Course Textbook(s) and/or Other Assigned Reading: REQUIRED TEXT: An Introduction to Statistical Methods and Data Analysis, by R. Lyman Ott and Michael Longnecker (6th edition, Brooks/Cole Cengage Learning, 2010), ISBN 978-0-495-01758-5

REQUIRED SOFTWARE: We will use SPSS and Microsoft Excel to run our tests and analyze data

Weekly Schedule of Topics : Day   Module   Topics Readings
          Contact hours
1   Module 1-Descriptive statistics
•   Graphical methods (Histogram, Boxplot)
•   Measures of central tendency
•   Measures of variability
Sections 3.3, 3.4, 3.5, 3.6
4-Contact hours
          Module 2- Random variables and Random sampling
•   Discreet and continuous random variables
•   Probability distributions
•   Random sampling
•   Sampling distributions
•   Central Limit theorem and applications   Sections 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12
4- Contact Hours

2   Module 3-Statistical inference
•   Estimating population mean
•   Choosing sample size for estimation
•   Single variable hypothesis test
•   Level of significance of a statistical test
•   Power of a test
•   Inference about difference between two population means
•   Inference about equality of population variances Sections 5.2, 5.3, 5.4, 5.5, 5.6, 5.7
Sections 6.2, 6.4
Sections 7.2, 7.3
8 - Contact Hours

3   Module 4- Regressions
•   Correlation
•   Estimating model parameters
•   Inferences about regression parameters
•   Lack of fit in linear regressions
•   Checking model assumptions   Sections 11.2,11.3, 11.5, 11.7
Sections 12.2, 12.3, 12.4
Sections 13.4
8 - Contact Hours

4   Module 5- ANOVA
•   Completely randomized design
•   Randomized complete block design
•   Estimation of treatment differences
•   Comparison of treatment means
•   Fisher's Least Significant Difference
Sections 8.2, 8.3
Sections 9.2, 9.3, 9.4
          8 -Contact Hours

5   Module 6- Categorical data
•   Goodness of fit Chi-square test
•   Contingency tables
•   Test for independence

Sections 10.3, 10.4, 10.5
8 - Contact Hours

6   Review
•   Review of the material
•   Discuss exam
8 - Contact Hours

Disclaimer: This syllabus represents my current plans and objectives. As we go through the course, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.

Grading Scheme : Sr. No. Evaluation Mechanism   Weights
1.   Four Quizzes (individual) 48%
Each quiz weight 12%
2.   Final Exam (individual)   52 %

Grades will be awarded using the following table:
Points earned (on a scale of 100)   Letter grade
90 – 100   A
85 – 89.9   A-
80 – 84.9   B+
75 – 79.9   B
70 – 74.9   B-
65 – 69.9   C+
60 – 64.9   C
0 – 59.9   C-, D+, D, D- or E as seen fit by instructor

UF grading policies are available at https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx. This link gives details of how grade points are assigned for individual grades, how GPA is calculated and other related information. Please familiarize yourself with these policies.

Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

Accommodations/Disability:
Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://www.dso.ufl.edu/drc/ by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Evaluating Course:
Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu . Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/

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Office Hours: After class and by appointment