**C:\Documents and Settings\nhb0002\My Documents\My Pictures\Microsoft Clip Organizer\j0155963.wmfSYLLABUS**

CTMU 7970 / 7976

***Quantitative Research in Music Education***

**Instructor:** Nancy H. Barry, Ph.D.

**Office:** 5040 Haley Center

**Phone:** 334-844-6787end\_of\_the\_skype\_highlighting **email:** barrynh@auburn.edu

**Required Text:**

***How to Use PASW Statistics: A Step-by-Step Guide to Analysis and Interpretation*** *(Sixth Edition),by Brian C.Cronk*

*$39.95; ISBN 1-884585-92-2; © 2010; 136 pages*

**Recommended Supplemental Texts:**

**SPSS® Basics: Techniques for a First Course in Statistics** (Second Edition)  
by Zealure C. Holcomb

$42.50; ISBN 1-884585-82-5; © 2009; 186 pages

**Interpreting Basic Statistics: A Guide and Workbook Based on Excerpts from Journal Articles** (Sixth Edition)  
Zealure C. Holcomb

$42.50; ISBN 1-884585-91-4; © 2010; 192 pages

**Course Objectives** *The Student will be able to . . .*

* Define standard statistical/quantitative research terminology
* Create a data file with appropriate variables and labels
* Use SPSS/ PASW to create appropriate charts and graphics for data interpretation
* Select and run appropriate SPSS/ PASW procedures for data analysis including: Frequencies, Descriptives, Crosstabs, Case Summaries, ANOVA, Correlations, Regression, Non-parametric Statistics, Discriminant Analysis, Factor Analysis, and Reliability
* Interpret SPSS/ PASW output in relation to research questions and hypotheses
* Develop appropriate research designs to address research questions in music education

**Graded Assignments**

10 Practice Application Assignments (10 @ 5% = 50%)

Test 1 (15%)

*Class notes and assigned readings. Test format will include matching, fill-in-the-blank, and short answer items.*

Data Analysis Skills Check Up (15%)

*By appointment with instructor. Students will demonstrate fluency with SPSS/ PASW statistics software by completing a series of selected data analysis tasks.*

Test 2 (15%)

*Class notes and assigned readings. Test format will include matching, fill-in-the blank, and short answer items.*

Class Participation and Attendance (5%)

**Grading System:**

A = 100 – 91

B = 90 – 81

C = 80 – 71

D = 70 – 61

It is the policy of Auburn University and of this instructor to accommodate special needs. Students who need special accommodations in class, as provided for by the American Disabilities Act, should arrange a confidential meeting with the instructor during office hours the first week of classes - or as soon as possible if accommodations are needed immediately. You must bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have these forms but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844.2096 (V/TT).

CTMU 7970 / 7976

***Quantitative Research in Music Education***

**SPRING 2011 CALENDAR\***

*\*This Calendar may be changed when it is deemed in the best interest of students to do so. Any necessary adjustments to the course calendar will be announced in advance.*

|  |  |  |
| --- | --- | --- |
| **DATE** | **TOPIC** | **ASSIGNMENT (Due Date)** |
| 1/13/11 | Review of statistical/research terminology  Levels of data  Variable types, names, and labels  Data Files | Discussion Topics #1  Data Codebook  Research Abstract #1 |
| 1/20/11 | Descriptive Statistics  Frequencies  Descriptives  SPSS Statistics Coach | Read Chapters 1- 3  Application Assignment 1 |
| 1/27/11 | Graphics  Chart Builder  Crosstabulations | Read Chapter 4  Application Assignment 2 |
| 2/3/11 | Sorting and Selecting Data  Case Summaries |  |
| 2/10/11 | Prediction and Association  Relationship VS Causation  Correlation  Regression | Read Chapter 5  Application Assignment 3 |
| 2/17/11 | Experimental Research  Parametric Inferential Statistics  *t* Test  ANOVA  ANCOVA  MANOVA | Read Chapter 6 |
| 2/24/11 | **TEST 1** |  |
| 3/3/11 | SPSS Results Coach  Draft Viewer | Application Assignment 4 |
| 3/10/11 | Non-Parametric Statistics | Read Chapter 7  Application Assignment 5 |
|  |  |  |
| 3/17/11 | SPRING BREAK |  |
| 3/24/11 | Test Construction | Read Chapter 8  Application Assignment 6 |
| 3/31/11 | Discriminant Analysis | Application Assignment 7 |
| 4/7/11 | Cluster Analysis  Hypothesis Testing | [Application Assignment 8](http://faculty-staff.ou.edu/B/Nancy.H.Barry-1/6242Asgn.html) |
| 4/14/11 | Factor Analysis  Transforming Data Values (Compute, Recode) | [Application Assignment 9](http://faculty-staff.ou.edu/B/Nancy.H.Barry-1/6242Asgn.html) |
| 4/21/11 | [Reliability & Validity](http://faculty-staff.ou.edu/B/Nancy.H.Barry-1/valid.html)  [Reliability Analysis](http://faculty-staff.ou.edu/B/Nancy.H.Barry-1/relanal.html)  [SPSS Syntax Editor](http://faculty-staff.ou.edu/B/Nancy.H.Barry-1/syntax.html) | [Application Assignment 10](http://faculty-staff.ou.edu/B/Nancy.H.Barry-1/6242Asgn.html) |
| 4/28/11 | **TEST 2** |  |
| 5/5/11 | *EXAMS* | *Skills Check Up* Must Be Completed |