

SYLLABUS  
School of Music  
University of Florida

***Quantitative Research Methods***

**MUE 7784 (3)**  
Spring 2017  
4:05-7:05PM (Periods 9-11)  
MUB 145

**Professor: Dr. Marshall Haning**  
Office: 358 Music Building  
Office Hours: As posted or by appointment  
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**Course Description**

This course is intended to give students a thorough grounding in quantitative social science research methods. Topics to be covered include quantitative research designs, survey design, data gathering, statistical analysis, and interpretation of results.

**Required Texts**

Russell, J. A. (2018). *Statistics in Music Education Research*. New York, NY: Oxford University Press.

**Other Resources**

1. Online resources have been established for use in this course in Canvas, available at <https://ufl.instructure.com>
2. Datasets for class assignments and access to statistical analysis software are available through the UFApps R Drive. Information about how to access this resource will be discussed in class.
3. Selected readings and other resources may be placed on reserve in the Music Library – <http://www.uflib.ufl.edu/music/>

**Goals and Objectives**

By the conclusion of this course, the graduate music education student will:

1. read, reflect on, and discuss quantitative research literature in the field of music education;
2. develop an understanding of quantitative research designs and methods of data collection;
3. acquire and apply knowledge about statistical data analysis;
4. develop and implement quantitative survey instruments; and
5. demonstrate growth in writing skills and research design.

**University Required Statements:**

*Students Requesting Accommodations due to Disabilities*

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

### *Academic Honor Policy*

It is expected that you will exhibit ethical behavior concerning your work in this class. Students are expected to do their own work, use their own words in papers, and to reference outside sources appropriately. Failure to uphold the standards of academic honesty will result in the appropriate disciplinary action.

As a result of completing the registration form at the University of Florida, every student has signed the following statement:

"I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University." We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

Furthermore, on work submitted for credit by UF students, the following pledge is either required or implied:

"On my honor, I have neither given nor received unauthorized aid in doing this assignment."

### *Online Course Evaluations*

Students are expected to provide feedback on 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.

### **Expectations**

*Workload:* This graduate course requires considerable reading, along with discriminating reflection, writing, and discussion. Be prepared to devote the time necessary to be successful.

*Attendance:* Prompt attendance is expected as a demonstration of professional commitment. The heart of education at the University of Florida is the teaching/learning interaction between you the student and your instructors. Because of this belief, class attendance is regarded as an essential part of the "contract" between you and the University. You are expected to attend all classes for which you are registered. If you know you must be absent from this class, you should speak with Dr. Haning before your absence, stating the reasons for your absence and agreeing upon a way to make up the work. Absences for illness and other valid reasons will be excused when **advance notice** is provided. If you have a valid reason for an absence on an examination day, and you let me know in advance, you will be permitted to make up the test at a mutually convenient time. Exams must be made up as soon as possible after your return to class, and no later than one week following your return.

*Class Participation:* Because active and articulate oral interchange increases verbal skills and promotes a stimulating classroom atmosphere, the instructor will evaluate the quality, quantity, and appropriateness of each student's oral contributions to the class. Although no attempt will be made to translate this evaluation into an objective number of points, the instructor will use his subjective judgment of this behavior in the determination of borderline final grades. The dynamics of this class,

and its ultimate value to you, require you to come to class prepared (read assignments), bringing questions and comments to stimulate discussions.

*Email:* Your UFL email account is the official email address used by the University, where official correspondence is sent. Important communication regarding this course may also take place via email, and your UFL email address is what will be used. All students need to regularly check their email, at least one time per day. Make checking it part of your daily routine. Likewise, unless there are extenuating circumstances, when you send me an email during the week (M-F) you can expect a reply within 24 hours. I will reply on weekends as I am able.

| <b>Assignment Type</b>   | <b>Weight</b> |
|--|---------------|
| Weekly Assignments   | .05           |
| Damn Lies and Statistics Paper   | .05           |
| Research Article Reviews (3 @ .05)   | .15           |
| Survey Project   | .15           |
| Research Study and Presentation  | .30           |
| <ul style="list-style-type: none"> <li>• Topic &amp; Annotated Bibliography (.025)</li> <li>• Prospectus (.025)</li> <li>• Dataset and Analysis Outline (.025)</li> <li>• Peer-Review Draft (.025)</li> <li>• Presentation (.05)</li> <li>• Final draft (.15)</li> </ul> |               |
| Exam #1  | .15           |
| Exam #2  | .15           |

| <b>Grading Scale</b> |    |
|----------------------|----|
| 93-100               | A  |
| 90-92                | A- |
| 87-89                | B+ |
| 83-86                | B  |
| 80-82                | B- |
| 77-79                | C+ |
| 73-76                | C  |
| 70-72                | C- |
| 67-69                | D+ |
| 63-66                | D  |
| 60-62                | D- |
| 59 & below           | E  |

## COURSE CALENDAR

| <b>DATE</b>       | <b>TOPIC</b>   |
|-------------------|--|
| Week 1<br>Jan 10  | Introduction to Statistics: Foundational Principles                |
| Week 2<br>Jan 17  | Descriptive Statistics and Correlations                            |
| Week 3<br>Jan 24  | Hypothesis Testing; <i>t</i> -tests                                |
| Week 4<br>Jan 31  | <i>t</i> -tests continued; Research Questions; Sampling; Variables |
| Week 5<br>Feb 7   | ANOVA; Finding and Using Existing Datasets                         |
| Week 6<br>Feb 14  | Statistics Review; Choosing a Procedure; Cleaning Data             |
| Week 7<br>Feb 21  | Descriptive Research and Survey Design                             |
| Week 8<br>Feb 28  | Multiple Regression  |
| Week 9<br>Mar 14  | Experimental and Quasi-Experimental Research                       |
| Week 10<br>Mar 21 | Nonparametric Statistics   |
| Week 11<br>Mar 28 | Presenting Quantitative Research                                   |
| Week 12<br>Apr 4  | Research Design Practice/Statistics Review                         |
| Week 13<br>Apr 11 | Advanced Statistical Techniques                                    |
| Week 14<br>Apr 18 | Course Review  |
| Final Exams       | Research Project Presentations                                     |

**This syllabus is a guide. It may be varied as needed.**