**EDUC 5368:** Capstone MBE Research University of Texas at Arlington Spring 2017

**Professor:** Dr. Jiyoon Yoon

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**Office Hours:** by appointment.

**Time and Place of Class Meetings:** Thursday 5:30 – 7:40, Science Hall 333

**Description of Course Content:** This course supports practical implementation of student-driven research projects, addressing practical components of research process: data collection, data analysis, preparation of abstracts, preparation of posters, presentations, figures of publication, and manuscripts.

# Student Learning Outcomes:

* Students will implement the research project based on the proposal written in EDUC 5367.
* Students will increase their confidence in doing research.
* Students will use their findings to inform the teaching and scientific communities about their research.
* Students will submit the written reports for their projects to peer-reviewed outlets: conferences (abstracts), journals, etc.

# Required Textbooks and Other Course Materials:

Andy Fields, “Discovering statistics using SPSS”

# Descriptions of major assignments and examinations:

**Data collection:** The students will collect data for their project.

**Data analysis:** The students will perform statistical analysis of the collected data according to the proposal plan.

**Manuscript submission:** The students who collect sufficient data for a full report will submit the manuscript to a chosen journal for peer review.

**Reflection:** The students will write a self-analysis of their experience in conducting field research. Observations will include broader impacts of the research *process* or *product*: influence of research experience on personal or professional development, community relationship aspects of conducting educational research, the experience of professional scientific communication (poster presentation, manuscript submission), its effects, and feedback from peers and community.

**Expectations for Out-of-Class Study**: Beyond the time required to participant in each class meeting, students enrolled in this course should expect to spend at least an additional 9 hours per week of their own time on course-related activities, including data collection, analysis, reading required materials, completing assignments, etc.

**Disclaimer:** This syllabus is not a contract and may be changed for reasonable purposes during the semester in any way that serves the educational needs of the students enrolled in this course at the instructor’s discretion. If the syllabus is changed, you will be notified via email and/or during the class.

# Course Schedule

**Week 1, Jan. 22nd** – planning of project implementation and dissemination.

# Week 2, Jan. 29th -

Semester goal-setting. “The Sunday meeting” and time management.

# Journal publishing and peer review

Student presentations: select a journal in the field of educational research. (Alternative: find a call for a Special Issue, a volume for school teachers and practitioners, national-level conference call, etc.)

Obtain guidelines for authors and for reviewers, find information on the review process and timeline, impact factor, and target audience. Assess the topics of recent publications, most frequently read (downloaded) and most frequently cited articles in the journal. Select target outlet for your research project and explain your selection.

**Week 3, Feb. 5th** – Short scientific communication: abstract, highlights. Writing for peer review.

**NB:** ACES abstracts due February 6th : <http://www.uta.edu/gradstudies/admitted/ACES/>

**Week 4, Feb. 12 -** Practical statistical analysis: histograms, correlation. Project updates and troubleshooting.

**Week 5, Feb. 19th** – Practical statistical analysis: t-test, ANOVA. Project updates and troubleshooting. **Week 6, Feb. 26th –** Data visualization: preparation of figures for manuscripts, posters, etc. Project updates. **Week 7, March 5th –** Authorship, research ethics, integrity. Project updates.

**Week 8, March 12th –** *Spring Break, no class*

**Week 9, March 19th** *–* Poster preparation and in-class practice for ACES. Project updates, poster peer review.

**Week 10, March 26th** *–* No class: ACES on March 25th

**Week 11, April 2nd** – Practical statistical analysis: what to do with extra variables? Regression, MANOVA. Project updates.

**Week 12, April 9th –** Practical statistics: non-parametric analysis. Project updates.

**Week 13, April 16th -** In-class statistical analysis of project data (NB: the class meets in Hammond Hall 414, MBE computer lab). Project updates.

**Week 14, April 23rd –** Manuscript submission process: cover letter, reviewer selection, ethical guidelines, COI. Project updates.

**Week 15, April 30th –** Final draft of the manuscript DUE.

**Week 16, May 7th –** Research reflections DUE

# Course Policies

**Drop Policy:** Students may drop or swap (adding and dropping a class concurrently) classes through self- service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance**. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships ([http://wweb.uta.edu/ses/fao).](http://wweb.uta.edu/ses/fao))

**Americans with Disabilities Act:** The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability) or by calling the Office for Students with Disabilities at (817) 272-3364.

**Academic Integrity:** All students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

*I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*

*I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.*

Instructors may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents’ Rule* 50101, §2.2, suspected violations of university’s standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University.

**Student Support Services**: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to [resources@uta.edu,](mailto:resources@uta.edu) or view the information at  [www.uta.edu/resources.](http://www.uta.edu/resources)

**Electronic Communication:** UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at [http://www.uta.edu/oit/cs/email/mavmail.php.](http://www.uta.edu/oit/cs/email/mavmail.php)

**Student Feedback Survey:** At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory shall be directed to complete a Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit [http://www.uta.edu/sfs.](http://www.uta.edu/sfs)

**Final Review Week:** A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*.

During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.