EDCI 696
Applications of Research Methods
COURSE SYLLABUS: SUMMER I 2015

Instructor: David L. Brown, Ph.D.
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COURSE INFORMATION

Class Meetings:

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<th>Date</th>
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<td>June 08</td>
<td>Monday</td>
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<td>June 10</td>
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<td>June 15</td>
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<td>June 17</td>
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<td>June 22</td>
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<td>June 24</td>
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<td>July 01</td>
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<td>July 06</td>
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<td>July 08</td>
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Materials – Textbooks, Readings, Supplementary Readings:

Textbook(s) Required:


Recommended Texts:


Course Description:

An application of research methodology in curriculum and instruction including basic concepts employed in quantitative and qualitative research methods. This includes carrying out the pilot study designed in EDCI 695, data collection, data analysis, and use of computer applications for research. Student will by the end of semester, revise and/or write a research proposal. This is not a statistics class but students should be currently enrolled or have completed one statistic course. Prerequisites EDCI 695 and Doctoral level standing or consent of the instructor.

Student Learning Outcomes:

1. The student will increase their skills in reviewing and critiquing peer-reviewed studies for the purpose of learning how to understand research results, conclusions, and implications.

2. The student will increase their skills in writing research questions, and hypotheses for quantitative and mixed methods research.

3. The student will increase their knowledge and ability to select structured quantitative instruments and create qualitative and mixed methods questionnaires by which to measure their hypotheses.

4. The student will increase their skills in determining what statistical method to use to test their quantitative data.

5. The student will analyze data using excel and SPSS, present and interpret results, and write a brief report using tables.

6. The student will develop data sets using excel and import into SPSS for analysis.
Topics and Content Areas:

1. Conducting Policy Research
2. Research Designs.
3. Identifying a Research Problem.
4. Identifying a Possible Research Question.
5. The Purposes of a Literature Review.
7. Understanding and Writing a Literature Review.
8. Issues in Validity and Reliability.
10. Designing and Conducting Qualitative Research.
15. Analyzing and Interpreting Descriptive Research.
16. Writing Research Reports.
17. Developing Data Sets.

COURSE REQUIREMENTS

Instructional / Methods / Activities Assessments

Methods of Instruction:

Multiple methods of instruction will be used. They include lecture/discussions, cooperative groups, and web-assisted instruction. Additionally, students will take an active role as peer instructors in the class.

Course Requirements:

1. **Attend every class and be prepared to discuss, question, analyze, critique, and debate** assigned readings, special topic readings, and other class assignments. Each student will attend and participate in discussions, readings, and collaborative activities during each class session. Additionally, each student will complete assigned readings and be ready to share and discuss in class. Class participation is defined as regular attendance to class, coming to class prepared by having read the assigned readings; formulating questions for class discussion; active participation during in-class activities and discussions; and displaying professional conduct during class.
2. **Presentation:**

**Analyzing Data:** Each student enrolled in EDCI 696 will engage in data analysis using data collected from the IRB proposal submitted in EDCI 695 or data that will be provided by the instructor. This assignment will provide students practice in doing basic descriptive statistics and interpretation of data.

Each student will work in concert with the Instructor of record and their statistics professor to develop and analyze a set of data and write a brief report with tables and interpretation of results.

3. **Present Summary of Research:** Each student will present a summary of a research study to the class including a discussion of results with directions for future research. The presentation and discussion during the EDCI 696 class meeting will last for approximately 45 minutes. The presentation should be done in power point and include:

   A. A summary of the purpose of the study, why it is relevant, research questions addressed, methods use, and results and conclusions from study.
   
   B. Identify major strengths and weakness of the research study according to a criteria discussed in class.

4. **Reviews of Three Research Articles that Relate to Student’s Dissertation or Proposal Topic:** Students will use the enclosed template to prepare a 1 or 2 page review (each) of the three research-based articles that relate to the topic that will be examined in the student’s dissertation proposal. The students will be required to share their reviews of the research-based articles in terms of their strengths and weaknesses. Of the three reviews, two must be on a quantitative study and one must be on a mixed methods study.

5. **Chapter Presentation:** Each student will select chapters from textbook and develop a 4-6 page (PowerPoint) presentation and reaction to the key ideas. The student will provide copies of the (PowerPoint) handout for each class members, during their presentation. Students are strongly encouraged to actively engage class members in their presentation.

**Guidelines for Chapter Presentations:**

1. Please remember to bring copies of your handout materials during the Chapter Presentation.
2. If you choose to use the PowerPoint projector, please arrive early and check to see if you are able to open your file.
3. Please plan to share the key ideas orally, but do not read the information; discuss with the class.
4. Try to keep within your 20 – 30 minute time period. However, if you have to extend the time period, we have some additional time that must be used strategically.
5. Finally, please actively engage the class in understanding the key ideas within the chapter.
**Grading:**

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<th>Points</th>
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<tr>
<td>Data Analysis Assignment</td>
<td>100 pts</td>
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<tr>
<td>Present Summary of Research Study</td>
<td>100 pts</td>
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<tr>
<td>Chapter Presentations</td>
<td>60 pts</td>
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<td>Class Participation</td>
<td>10 pts</td>
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<tr>
<td>Reviews of 3 Research Articles</td>
<td>30 pts</td>
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<td><strong>Total</strong></td>
<td><strong>300 pts</strong></td>
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**TECHNOLOGY REQUIREMENTS**

This is not an Online Course but some technological resources will be required.

Access to a Computer with
- Internet Access.
- Microsoft Word Processing Software.
- Microsoft Power Point Software.
- Adobe or Foxit Reader to open PDF File.

**ACCESS AND NAVIGATION**

Dr. Brown will send email attachments of all readings relating to course topics. We will not use e-college in this course.

**COMMUNICATION AND SUPPORT**

Interaction with Instructor Statement:

*Participation & Communication:* Each of you is expected to participate fully in assigned readings related to course topics, chapter presentations, and discussions of current articles. Your active and thoughtful participation is expected in course assignments. Regular attendance is necessary and will be expected of all students.

In regards to communication, please use my email (David.Brown@tamuc.edu) to correspond with me regarding class matters. Also, I will be happy to schedule individual appointments with you, if needed. Also, I will post readings on the class website (http://drbrownedci696-S15.weebly.com) for individual assignments.
COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures:

**Lecture and readings:** Material from course lectures will not always be found in your text. Use of class discussions and class activities will be included in most class sessions. Please note that all questions on the examinations will be taken from the text, as well as the classroom lectures, videos, and discussions. Typically, you will be expected to read 1 to 2 chapters per week. It is advised that you do not wait until the night before to start the reading of materials. It is recommended that you stay current with chapter readings, and read the assigned chapter/s before each class.

If you would like to review an assignment, come by my office during office hours or set up an appointment. If you are having problems in class, please come and talk to me immediately. I am better able to help you if you come to me early. Please understand that you should not come to me at the end of the semester, unhappy with your grade, asking for a way to change it. Grades will not be changed.

**Citizenship:** All Students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See Student 92s Guide Handbook, Policies and Procedures, Conduct).

**Student Conduct:** All students are expected to conduct themselves in a professional manner at all times. You are adults and will be treated as such. Discriminatory, rude, and inappropriate language will not be tolerated in this class and students will be asked to leave or drop the class. If a student continues to act in the same manner during future classes, the instructor reserves the right to drop the student from the course.

**Late Work:** Assignments are due on specific dates, as assigned. Assignments will be accepted after the due date with the exception of major projects. However, a 10 point deduction will be applied to assignments that are 1 day late, and an additional 5 points for each day thereafter.

**Plagiarism:** Plagiarism **WILL NOT** be tolerated and will result in an automatic F in the course. Various versions of your work and final papers will be run through Turnitin software – this is not meant to “catch” you in the act, but rather assist you in seeing possible areas that may be unintentionally plagiarized and allow for editing your work.

Academic integrity is the pursuit of scholarly work free from fraud and deception and is an educational objective of this institution.

Texas A&M University-Commerce has explicit rules and regulations governing academic dishonesty and academic misconduct. As the University states, “All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.” These policies are stated in detail in the Student’s Guide Handbook. Each student is expected to read this document and abide by the contained policies. These university policies will be followed in this class. The minimum penalty for an act of academic dishonesty will be the assignment grade of 0 or F on the assignment. The maximum penalty is expulsion from the University.
Texas A&M University-Commerce further does not tolerate plagiarism and other forms of academic dishonesty. Conduct that violates generally accepted standards of academic honesty is defined as academic dishonesty. "Academic dishonesty" includes, but is not limited to, plagiarism (the appropriation or stealing of the ideas or words of another and passing them off as one’s own), cheating on exams or other course assignments, collusion (the unauthorized collaboration with others in preparing course assignments), and abuse (destruction, defacing, or removal) of resource material.

If you are unsure what constitutes plagiarism and how to avoid it. Visit the following websites:
http://www.plagiarism.org/
http://writingcenter.unc.edu
http://www.indiana.edu/~wts/pamphlets/plagiarism.shtml

Attendance: Attend all classes. Arrive on time and remain until class is dismissed. Class meets from 5:00 PM until 9:00 PM every Monday and Wednesday unless noted otherwise by the instructor. If you must miss a class due to a professional responsibility and know ahead of time, discuss this with the instructor on the first night of class to create a make-up plan. If you must miss a class due to an unforeseen excused absence or professional responsibility, email or leave a telephone message for the instructor before class, then give the instructor a written plan for make-up work at the beginning of the next class session. You must discuss this plan with the instructor and gain his approval to receive make-up credit. Each unexcused absence will lower your final average score by 10 points. For a definition of an excused absence, please see the Texas A&M University-Commerce Catalog or Student’s Guidebook.

Cell Phones/Computers: Please respect the instructor and your peers by turning off your cell phones and other technical devices during chapter presentations, unless you have notified me at the beginning of class that you have a critical family situation about which you must be notified. This should constitute only emergencies.

Scholarly Expectations: All works submitted for credit must be original works created by the scholar uniquely for the class. It is considered in appropriate and unethical, particularly at the graduate level, to make duplicate submissions of a single work for credit in multiple classes, unless specifically requested by the instructor. Work submitted at the graduate level is expected to demonstrate higher-order thinking skills and be of significantly higher quality than work produced at the undergraduate level.

University Specific Procedures:

ADA Statement

Students with Disabilities: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:
Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See Code of Student Conduct from Student Guide Handbook).

RESOURCES

Websites on Data Analysis:

http://www.kdnuggets.com/websites/microarray.html

http://en.wikipedia.org/wiki/Data_analysis#Qualitative_data_analysis

http://statistics.merlot.org/

References


Name:

Review of a Research Article
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___ Mixed methods article
___ Quantitative methods article

APA reference:

Purpose of the article:

Research question and hypotheses:

Sample size and description:

Instruments used:

Results:

Conclusion:

Implications:

Student: How will the findings in this article shape your own research?