SRM 600  
Introduction to Graduate Research  
Spring 2015

- **Instructor**  
  Khalil Shafie  
  Email: khalil.shafie@unco.edu  
  Phone: 970-351-2591  
  Office 521 McKee Hall  
  **Office Hours**: by appointment

- **Purpose of the Course:**  
  The goal of this course is to provide an overview of basic principles of scientific research and an introduction to basic concepts and methods used in conducting educational and behavioral research.

- **Course Objectives:** Following completion of this course, students should be able to
  - Define basic terminology and concepts associated with research
  - Describe the steps involved in planning, designing, and implementing a research study
  - Explain how to assess the reliability and validity of the instruments and procedures for collecting data
  - Compute and interpret basic descriptive statistics
  - Identify the problem and/or the hypothesis in a research study
  - Critically evaluate methodological issues of published research reports

- **Text and Materials**
  - Some supplementary research articles from Journals available at UNC library.
  - **Notes and Assignments:** Notes, the list of supplementary research articles, and the homework assignments will be posted on BLACKBOARD.

- **Lecture**
  The lectures are at Lowry Campus on
  April 24/ 25/ 26
  May 8/ 9/10

- **Coursework and Grading** Coursework will consist of required readings in the text, supplemental reading of published research accompanied by discussion questions, homework assignments, and two exams.
  The supplemental readings with questions provide practice reading and comprehending published research reports. They have been selected to enhance your understanding
of sound methodological principles of research. Details from these articles will not be covered on the exams.

Your final course grade will depend on your course score based on the following components with their respective weights:

EXAM I covers everything up to and including chapter 7, 35%.

EXAM II has two parts, in-class and take-home. The in class part covers everything after chapter 7, 35%.

Homework Assignments There will be some homework assignments to enhance your understanding of research methods and statistical concepts. 30%.

• Grade Distribution: Letter grades will be determined based on the following table:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100 percent</td>
</tr>
<tr>
<td>B</td>
<td>80 – 89 percent</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79 percent</td>
</tr>
<tr>
<td>D</td>
<td>60 – 69 percent</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60 percent</td>
</tr>
</tbody>
</table>

• Homework Assignment: There will be three homework assignments and they will be posted on the assignment section in Blackboard.

Homework Assignment Schedule (tentative)

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Sunday April 26</td>
</tr>
<tr>
<td>II</td>
<td>Friday May 1</td>
</tr>
<tr>
<td>III</td>
<td>Sunday May 10</td>
</tr>
</tbody>
</table>

• Exams

Examination Schedule (tentative)

<table>
<thead>
<tr>
<th>Examination</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXAM I</td>
<td>Saturday May 3</td>
<td>7:30 AM - 6:00 PM (2 hours)</td>
<td>online</td>
</tr>
<tr>
<td>EXAM II (in class)</td>
<td>Sunday May 10</td>
<td>2:00:4:00 PM</td>
<td>Lowry Campus</td>
</tr>
<tr>
<td>EXAM II (Take home)</td>
<td>due Tuesday May 12</td>
<td>6:00 PM</td>
<td></td>
</tr>
</tbody>
</table>

• Course Policies

– Homework assignments must be submitted at the due dates. Late homework will not be accepted.

– Makeup exams must be approved before the time of the exam and will be given only in case of medical or family emergencies.
• Regulations and Facilities

  – **Academic Integrity:** The University of Northern Colorado’s Student Code of Conduct ([http://www.unco.edu/dos/communityStandards/student_code_conduct/](http://www.unco.edu/dos/communityStandards/student_code_conduct/)) strictly prohibit any form of academic misconduct. All incidents of alleged plagiarism or other forms of academic dishonesty will be investigated and violations of academic integrity will result in a consequence that may be as severe as an F in the class and a recommendation for expulsion.

  – **Accommodations Statement:** Students who believe that they may need accommodations in this class are encouraged to contact the Disability Support Services, voice/TTY (970) 351-2289, or fax (970) 351-4166, or visit www.unco.edu/dss as soon as possible to ensure that accommodations are implemented in a timely fashion.

  – **Diversity Statement:** The College of Education and Behavioral Sciences (CEBS) supports an inclusive learning environment where diversity and individual differences are understood, respected, appreciated and recognized as a source of strength. We expect that students, faculty and staff within CEBS will be accepting of differences and demonstrate diligence in understanding how other peoples perspectives, behaviors, and world views may be different from their own. Furthermore, as stated by UNC, “The University will not engage in unlawful discrimination in educational services against any person because of race, religion, gender, age, national origin, disability, or veteran status. It is the University’s policy to prohibit discrimination in educational services on the basis of sexual orientation or political affiliation.” (See [http://www.unco.edu/hr/AAEO_TitleIX.htm](http://www.unco.edu/hr/AAEO_TitleIX.htm)).

  Please visit the CEBS Diversity and Equity Committee website for more information on our commitment to diversity ([http://www.unco.edu/cebs/diversity](http://www.unco.edu/cebs/diversity)).
<table>
<thead>
<tr>
<th>Day</th>
<th>Subject Chapter(s)</th>
<th>Omitted Pages</th>
<th>Additional Readings Paper by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Foundations 1-2</td>
<td>32-33</td>
<td>Lobel &amp; Levanon</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Houston</td>
</tr>
<tr>
<td>2</td>
<td>Research Background 3-5</td>
<td></td>
<td>Shrager &amp; Mayer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Kiewra et al.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Erkut &amp; Mokros</td>
</tr>
<tr>
<td>3</td>
<td>Statistical Analysis 6-7</td>
<td>149-154</td>
<td>Gresham &amp; Rescly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>184-206</td>
<td>Hathaway &amp; McKinley</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cunningham &amp; Stanovich</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Rosen et al.</td>
</tr>
<tr>
<td>4</td>
<td>Measurement 8 and 9</td>
<td></td>
<td>Bean et al.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Long et al.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Klingele &amp; Warrick</td>
</tr>
<tr>
<td>5 and 6</td>
<td>Research Methods 10-14</td>
<td>386-391</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>414-417</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>436-441</td>
<td></td>
</tr>
</tbody>
</table>