RESEARCH DESIGNS AND METHODS
PSYCH 510-01

I. LOCATOR INFORMATION:
INSTRUCTOR: Dr. Thomas E. Van Cantfort
OFFICE: 117 Cook
PHONE: 672-1260
E-MAIL: tvancantfort@uncfsu.edu
Web Address: http://faculty.uncfsu.edu/tvancantfort/

II. COURSE DESCRIPTION:
A course covering the rational, design and methods of conducting psychological research.

III. REQUIRED TEXTBOOKS:

IV. COURSE OBJECTIVES:
The successful student is expected to master the following competencies:

1. Be able to explain problems, problem statements, hypothesis statements.
2. Be able developed problem statements and hypothesis statements
3. Be able to evaluate the adequacy of research design, methodology, measurement, and analysis.
4. Be able to do hypotheses testing.
5. Be able to construct a two-group between-subjects design.
6. Be able to construct a two-group within-subjects design.
7. Be able to construct a multi-group between-subjects design.
8. Be able to construct a multi-group within-subjects design.
9. Be able to discuss the ethical consideration in conducting behavioral science research.

V. STUDENT EVALUATION AND GRADING:

1. Midterm: The midterm will be comprised of definition of terms and essay questions. The midterm is worth fifty (50) points. The midterm will cover chapters 1, 2, 3, 7, 8, 11, 12, and 17 and lecture material.
2. Final: The final exam will be comprised of definition of terms and essay questions. The final is worth fifty (50) points. The final will cover chapters 18, 19, 21, 22, 23, 24, 28, 31, and 33 and lecture material.

3. Class Participation: Throughout the semester there will be journal articles assigned for discussion in class. The references for the articles will be given in advance and it is your responsibility to get a copy of these articles, read it, and be prepared to discuss these articles in class. Class participation is worth fifty (50) points. Failure to obtain and read these articles may lead to lowering of your final grade. For class discussions to be successful it is very important that all students have read the articles.

4. Total points that can be earned in this class is 150. Final grades will be determined according to the following schedule:

- A ≥ 90% of highest total points earned
- B ≥ 80% and < 90% of highest total points earned
- C ≥ 70% and < 80% of highest total points earned
- F < 70% of highest total points earned

VI. COURSE OUTLINE:

Jan. 11 T. The Scientific Approach Ch. 1, pp. 3 - 14

Jan. 18 T. Problems and Hypotheses Ch. 2, pp. 15 - 25

Jan. 20 T. Constructs, Variables, & Definitions Ch. 3, pp. 26 - 41

Jan. 25 T. Probability Ch. 7, pp. 89 - 108

Feb. 1 T. Sampling and Randomness Ch. 8, pp. 109 - 122

Feb. 8 T. Statistics Ch. 11, pp. 174 - 185
    Testing Hypotheses Ch. 12, pp. 186 - 200

Feb. 15 T. Research Design Ch. 17, pp. 279 - 291

Feb. 22 T. MIDTERM

Mar. 1 T. SPRING BREAK

Mar. 8 T. Research Design Ch. 18, pp. 292 - 301

LAST DAY TO WITHDRAW FROM CLASSES
<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Topic</th>
<th>Ch.</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mar. 15</td>
<td>T.</td>
<td>Research Design</td>
<td></td>
<td>302 - 318</td>
</tr>
<tr>
<td>Mar. 22</td>
<td>T.</td>
<td>Nonexperimental Research</td>
<td></td>
<td>347 - 363</td>
</tr>
<tr>
<td>Mar. 29</td>
<td>T.</td>
<td>Field Experiments</td>
<td></td>
<td>364 - 376</td>
</tr>
<tr>
<td>Apr.  5</td>
<td>T.</td>
<td>Survey Research</td>
<td></td>
<td>377 - 388</td>
</tr>
<tr>
<td>Apr. 12</td>
<td>T.</td>
<td>Methods of Observations</td>
<td></td>
<td>486 - 506</td>
</tr>
<tr>
<td>Apr. 19</td>
<td>T.</td>
<td>Multivariate Approaches</td>
<td></td>
<td>526 - 550</td>
</tr>
<tr>
<td>Apr. 26</td>
<td>T.</td>
<td>FINAL EXAM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VII. TEACHING STRATEGIES:
This course will be taught using both lecture and discussion.

VIII. BIBLIOGRAPHY:


