1. Catalog Description of the Course. [Follow accepted catalog format.]

Prefix PSY  Course# 482  Title INTERMEDIATE STATISTICS  Units (3)
3 hours lecture per week
hours blank per week
Prerequisites PSY 300 and PSY 301 and PSY 303 or PSY 202
Corequisites
Description Presents advanced statistical analyses and their application including factorial designs, multivariate analysis of variance, and multiple regression. Emphasizes is on both the theoretical and applied aspects of the various statistical approaches.

Graded
Categories
Lab Fee Required
A - F
Total Completions Allowed
Multiple Enrollment in same semester
Title V Section 40404: Government US Constitution US History

2. Mode of Instruction (Hours per Unit are set for you).

<table>
<thead>
<tr>
<th>Units</th>
<th>Hours per Unit</th>
<th>Benchmark Enrollment</th>
<th>Graded Component</th>
<th>CS &amp; HEGIS #</th>
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<tr>
<td>Lecture</td>
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<td>Seminar</td>
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<tr>
<td>Activity</td>
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3. Justification and Learning Objectives for the Course. (Indicate whether required or elective, the degree it pertains to, and whether it meets University Writing, and/or Language requirements) [Use as much space as necessary]

This course is an elective in the psychology major that presents statistical techniques that are beyond those covered in the introductory statistical course sequence (PSY 202, PSY 300, and PSY 301) yet are necessary for students who wish to take the advanced Multivariate (PSY 483).

Upon completion of the course, the student will be able to:
-- Identify the major statistical approaches utilized by psychologists
-- Demonstrate & articulate their understanding of advanced statistical techniques including ANOVA, ANCOVA, & MANOVA
-- Conduct a POWER Analysis
-- Apply appropriate statistical analyses to a variety of research hypotheses

4. Is this a General Education Course  YES ☑  NO ☒
If Yes, indicate GE category and attach GE Criteria Form:

A (English Language, Communication, Critical Thinking)
A-1 Oral Communication
A-2 English Writing
A-3 Critical Thinking

B (Mathematics, Sciences & Technology)
B-1 Physical Sciences
B-2 Life Sciences – Biology
B-3 Mathematics – Mathematics and Applications
B-4 Computers and Information Technology

C (Fine Arts, Literature, Languages & Cultures)
C-1 Art
5. **Course Content in Outline Form.**  *Be as brief as possible, but use as much space as necessary*

   - Introductions, Overview, and Data Entry
   - Data Screening
   - Distributions & Probability
   - Power
   - Chi Square
   - Hypothesis Test Applied to Means & Power
   - Correlation and Regression
   - Simple ANOVA
   - Multiple Comparisons
   - Factorial ANOVA
   - ANCOVA
   - MANOVA

   Does this course overlap a course offered in your academic program? **YES ☒ NO ☐**

   If YES, what course(s) and provide a justification of the overlap?

   Does this course overlap a course offered in another academic area? **YES ☒ NO ☐**

   If YES, what course(s) and provide a justification of the overlap?

   Signature of Academic Chair(s) of the other academic area(s) is required on the signature sheet below.

6. **Cross-listed Courses (Please fill out separate description for each PREFIX)**

   List Cross-listed Courses

   Signature of Academic Chair(s) of the other academic area(s) is required on the signature sheet below.

   Department responsible for staffing: Psychology

7. **References.**  *Provide 3 - 5 references on which this course is based and/or support it.*


8. **List Faculty Qualified to Teach This Course.**

   Psychology Faculty

9. **Effective Date and Frequency.**
   
   a. Projected semesters to be offered: Fall ☒ Spring ☒ Summer ☐
   
   b. First semester offered: 2008

10. **New Resources Required.**  **YES ☒ NO ☐**

    If YES, list the resources needed and obtain signatures from the appropriate programs/units on the sheet below.

    a. Computer (data processing), audio visual, broadcasting needs, other equipment
b. Library needs

c. Facility/space needs

11. Will this new course alter any degree, credential, certificate, or minor in your program? YES ☐ NO ☒
If, YES attach a program modification form for all programs affected.

Proposer of Course Date
# Approval Sheet

**Program/Course:**

<table>
<thead>
<tr>
<th>Chair(s)</th>
<th>Date</th>
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<tbody>
<tr>
<td>Program Chair(s)</td>
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<tr>
<td>General Education Chair(s)</td>
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<td>Curriculum Committee Chair(s)</td>
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<td>Dean of Faculty</td>
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