

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS
NEW COURSE PROPOSAL

DATE 4.5.07
PROGRAM AREA PSYCHOLOGY

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.

☐ Gen Ed ☐ CR/NC

☐ Repeatable for up to units

Categories

☐ Lab Fee Required

☒ A - F

Total Completions Allowed

☐ Optional (Student's choice)

☐ 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).

	Units	Hours per Unit	Benchmark Enrollment	Graded Component	CS & HEGIS # (filled in by Dean)
Lecture	3	1	30	<input checked="" type="checkbox"/>	
Seminar		1		<input type="checkbox"/>	
Laboratory		3		<input type="checkbox"/>	
Activity		2		<input type="checkbox"/>	

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 ☐

C-2 Literature Courses	<input type="checkbox"/>
C-3a Language	<input type="checkbox"/>
C-3b Multicultural	<input type="checkbox"/>
D (Social Perspectives)	<input type="checkbox"/>
E (Human Psychological and Physiological Perspectives)	<input type="checkbox"/>
UD Interdisciplinary	<input type="checkbox"/>

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.]*

Howell, D. C. (2002). Statistical Methods for Psychology, 5th edition; Duxbury.
 Stevens, J. P (In Press). Intermediate Statistics: A Modern Approach, Lawrence Erlbaum.
 Duntelman, G. H. & Ho, M. H. R. (2005). An Introduction to Generalized Linear Models, Sage Publications.

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.

Virgil H. Adams III, Ph.D.

Proposer of Course

3/28/2007

Date

Approval Sheet

Program/Course:

Program Chair(s)	Date
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General Education Chair(s)	Date
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Curriculum Committee Chair(s)	Date
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Dean of Faculty	Date
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