CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

PROGRAM AREA	P_{R}	OGR	AM	ΑR	ΕA
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1.	Catalog Description of the Course. [Include the course prefix, number, full title, and units. Provide a course narrative
	including prerequisites and corequisites. If any of the following apply, include in the description: Repeatability (May be
	repeated to a maximum of units); time distribution (Lecture hours, laboratory hours); non-traditional grading
	system (Graded CR/NC, ABC/NC). Follow accepted catalog format.]

PSY 483 APPLIED MULTIVARIATE ANALYSES (4)

Three hours lecture and two hours lab per week

Prerequisite: PSY202, PSY 301; or consent of instructor

An applied overview of multivariate data analysis. Topics include multiple regression, discriminant analysis, canonical correlation analysis, factor analysis, cluster analysis, conjoint analysis, multivariate analysis of variance and an introduction to structural equation modeling.

2. Mode of Instruction.

	Units	Hours per Unit	Benchmark Enrollment
Lecture	3	1	25
Seminar			
Laboratory	<u> </u>	<u>2</u>	<u>25</u>
Activity			

3. Justification and Learning Objectives for the Course. (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) [Use as much space as necessary]

An elective course in the psychology major The primary goal of this course is to provide Psychology majors with experience in an increasingly important aspect of the scientific method: using quantitative methodology and multivariate statistics to examine and answer psychologically relevant research questions. Through this course, students will:

- 1. Ensure that a given set of data conform to the assumptions made by common univariate, bivariate and multivariate statistical procedures;
- 2. Decide which common multivariate procedures to use with a given data set to answer a set of research questions;
- 3. Use SPSS to analyze a data set using multivariate analytical techniques;
- 4. Read and interpret the SPSS output in a correct manner;
- 5. Write up the statistical analyses in APA format;
- 6. Identify conditions under which multivariate methodologies are appropriate;
- 7. Evaluate experimental hypotheses requiring multivariate analytical techniques;
- 8. Identify the conditions under which multivariate techniques are preferred to univariate procedures;
- 9. Read and comprehend research that employs multivariate statistical procedures.

4.	Is this a General Education Course	YES	NO
	If Yes, indicate GE category:		<u> </u>
	A (English Language, Communication, C	Critical Thinking)
	B (Mathematics & Sciences)		
	C (Fine Arts, Literature, Languages & C	Cultures)	
	D (Social Perspectives)		
	E (Human Psychological and Physiologic	cal Perspectives)	

5.	Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]	
	Data screening and data editing	
	Basic review of ANOVA models Multiple regression	
	Discriminant analysis	
	Canonical correlation anand canonical variate analysis	
	Basic principal components and factor analysis	
	Basic cluster analysis and conjoint analysis	
	Multivariate analysis of variance and covariance Introduction to structural equation modeling	
	introduction to structural equation moderning	
6.	References. [Provide 3 - 5 references on which this course is based and/or support it.]	
	American Psychological Association. (2002). <i>Publication manual of the American Psychological Association</i> (5th ed.). Washington, DC: Author.	
George, D., & Mallery, P. (2002). SPSS for Windows step by step: A simple guide and reference (4th ed.). New York: Bacon.		
	Stevens, J. (1996). Applied multivariate statistics for the social sciences (3rd ed). New Jersey: Lawrence Erlbaum.	
	Tabachnick, B. G., & Fidell, L. S. (2002). <i>Using multivariate statistics</i> (4 th ed.). New York: Allyn & Bacon.	
	Tabachnick, B. G., & Fidell, L. S. (2002). Computer-assisted research design and analysis. New York: Allyn & Bacon.	
7.	List Faculty Qualified to Teach This Course.	
	Psychology faculty	
8.	Frequency.	
	a. Projected semesters to be offered: Fall <u>X</u> Spring <u>X</u> Summer	
9.	 New Resources Required. a. Computer (data processing), audio visual, broadcasting needs, other equipment b. Library needs c. Facility/space needs 	
10.	Consultation. Attach consultation sheet from all program areas, Library, and others (if necessary)	
11.	If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.	
	urley Baker 05 January 2003	
Pro	oposer of Course Date	

Approvals

Program Coordinator	Date
GE Committee Chair (If applicable)	Date
Curriculum Committee Chair	Date
Dean	Date
Effective Semester:	

California State University Channel Islands Modified Course Proposal Consultation Sheet

1. Course prefix, number, title, and units: _	
2. Program Area:	_

Recommend Approval

Program Area/Unit	Program/Unit Coordinator	YES	NO (attach	Date
			objections)	
Art			3	
Business & Economics				
Education				
ESRM				
Humanities				
Liberal Studies				
Mathematics & CS				
Sciences				
Library*				
Information Technology*				

^{*} If needed