CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

NEW COURSE PROPOSAL

PROGRAM AREA _____

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.]*

MATH 329. STATISTICS FOR BUSINESS AND ECONOMICS (3)

Three hours of lecture in the lab per week.

Introduction to modern statistical methods used in business and economic analysis. Topics include: sampling, probability, various distributions, correlation and regression, statistical inferences, hypothesis testing, problem solving and the consequences to underlying economical systems.

Gen Ed: B3

2. **Mode of Instruction.**

	Units	**Hours per Unit**	**Benchmark Enrollment**
Lecture	_____3___	_____1___	___24_____
Seminar	_____	_____	_____
Laboratory	_____	_____	_____
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]*

This course is required for Business major students according to accreditation guidelines.

Students will be able to

- discuss the application of statistics in business and research situations.
- discuss the nature of statistical inference and apply the methods
- analyze data in statistical and graphical terms.
- use a computer-based statistics software package.
- demonstrate a variety of commonly used techniques and the models underlying them.
- express a generally posed scientific question as a statistical question in a written and oral form

4. **Is this a General Education Course** **YES**
If Yes, indicate GE category:

A (English Language, Communication, Critical Thinking)	
B (Mathematics & Sciences)	**B3**
C (Fine Arts, Literature, Languages & Cultures)	
D (Social Perspectives)	
E (Human Psychological and Physiological Perspectives)	
INTERDISCIPLINARY	

5. **Course Content in Outline Form.** *[Be as brief as possible, but use as much space as necessary]*

Graphical Descriptive Techniques
Numerical Descriptive measures
Data Collection and Sampling
Probability Distributions (Discrete and Continuous)

Centeral Limit Theorem
Estimation
Hypothsis Testing
Comparison of Two Populations
Anova
Simple Linear Regression and Correlation
Forcasting

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

Statistics For Management and Economics, Gerald Keller, Brian Warrack, Brookes/Cole 2002

7. List Faculty Qualified to Teach This Course.
All Mathematics faculty

8. Frequency.
a. Projected semesters to be offered: Fall __X___ Spring __X___ Summer ___X__

9. New Resources Required.
a. Computer (data processing), audio visual, broadcasting needs, other equipment

Access to computer labs to use statistical packages

b. Library needs
none
c. Facility/space needs
none

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.

_____ Ivona Grzegorczyk _____1/8/03_____
Proposer of Course Date

Approvals

_____

Program Coordinator Date

_____

GE Committee Chair Date
(If applicable)

_____

Curriculum Committee Chair Date

_____

Dean Date

Effective Semester: _____

California State University Channel Islands

New Course Proposal Consultation Sheet

1. Course prefix, number, title, and units: _____ **MATH 340. Statistics for Business and Economics (3)**

_____

2. Program Area: _____MATH_____

Recommend Approval

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

* If needed