

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by November 2, 2009, to make the next catalog (2010--2011) production

DATE (CHANGE DATE EACH TIME REVISED): 23 FEBRUARY 2010 REV 7.28.10

PROGRAM AREA(S): PSYCHOLOGY

Directions: All of sections of this form must be completed for course modifications. All documents are stand alone sources of course information.

1. Course Information.

[Follow accepted catalog format.] (Add additional prefixes if cross-listed)

OLD
 Prefix **PSY** Course# **301** Title PSYCHOLOGICAL RESEARCH AND STATISTICAL METHODS II Units (3)
 2 hours lecture per week
 2 hours blank per week

Prerequisites: **PSY 300**
 Consent of Instructor Required for Enrollment
 Corequisites:

Catalog Description (Do not use any symbols): Two hours lecture and two hours lab per week Prerequisite: PSY 300 with grade C or better. A continuation of PSY 300. Advanced research methodology and within the empirical framework in the behavioral sciences. Topics include how to apply the scientific method within the field of psychology and the social sciences, ethical guidelines and issues related to the research in, and practice of, psychology, how to evaluate research and popular claims in psychology with a critical eye, and computer applications related to statistics and research. Coursework on inferential and descriptive statistical methods will build on material from PSY 300.

General Education Graded
 Categories CR/NC Repeatable for up to units
 Lab Fee Requested A - F Total Completions
 Course Level: Multiple Enrollment in same semester
 Undergraduate Optional (Student's choice)
 Post-bac/Credential
 Graduate

NEW
 Prefix **PSY** Course# **301** Title PSYCHOLOGICAL RESEARCH AND STATISTICAL METHODS II Units (3)
 2 hours lecture per week
 2 hours activity per week

Prerequisites: **PSY 300 with a grade of C or better**
 Consent of Instructor Required for Enrollment
 Corequisites:

Catalog Description (Do not use any symbols): A continuation of PSY 300. Advanced research methodology within the empirical framework in the behavioral sciences. Topics include how to apply the scientific method within the field of psychology and the social sciences, ethical guidelines and issues related to the research in, and practice of, psychology, how to evaluate research and popular claims in psychology with a critical eye, and computer applications related to statistics and research. Coursework on inferential and descriptive statistical methods will build on material from PSY 300.

General Education Graded
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2. Mode of Instruction (Hours per Unit are defaulted)

Hegis Code(s) _____ (Provided by the Dean)

Existing

Proposed

	Units	Hours Per Unit	Benchmark Enrollment	Graded		Units	Hours Per Unit	Benchmark Enrollment	Graded	CS No. (filled out by Dean)
Lecture	2	1	25	X	Lecture	2	1	25	X	
Seminar		1			Seminar		1			
Lab	2	3	25	X	Lab		3			
Activity		2			Activity	1	2	25	X	
Field Studies					Field Studies					
Indep Study					Indep Study					

3. Course Attributes:

General Education Categories: All courses with GE category notations (including deletions) must be submitted to the GE website: <http://summit.csuci.edu/geapproval>. Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.

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
- C-3a Language
- C-3b Multicultural

D (Social Perspectives)

E (Human Psychological and Physiological Perspectives)

UDIGE/INTD Interdisciplinary

Meets University Writing Requirement

Meets University Language Requirement

American Institutions, Title V Section 40404: Government US Constitution US History

Refer to website, Exec Order 405, for more information: <http://senate.csuci.edu/comm/curriculum/resources.htm>

Service Learning Course (Approval from the Center for Community Engagement must be received before you can request this course attribute).

4. Justification and Requirements for the Course. *[Make a brief statement to justify the need for the course]*

OLD

This is a required course for Psychology majors. In this course, students will develop the collaborative, research, and writing skills needed to conduct and present an original, ethical psychological experiment.

- Requirement for the Major/Minor
- Elective for the Major/Minor
- Free Elective

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- Elective for the Major/Minor
- Free Elective

Submit Program Modification if this course changes your program.

5. Learning Objectives. (List in numerical order. You may wish to visit resource information at the following website:

<http://senate.csuci.edu/comm/curriculum/resources.htm>)

Upon completion of the course, the student will be able to:

OLD

1. Read, understand, and critically evaluate research reports published in psychological journals on the basis of its construct validity, internal validity, external validity, statistical validity, and conformity to APA's ethical principles.
2. Develop testable hypotheses derived from a theory.
3. Identify and apply various research designs in new situations.

Upon completion of the course, the student will be able to:

NEW

1. Read, understand, and critically evaluate research reports published in psychological journals on the basis of its construct validity, internal validity, external validity, statistical validity, and conformity to APA's ethical principles.
2. Develop testable hypotheses derived from a theory.
3. Identify and apply various research designs in new situations.

4. Create and critique questionnaires/survey instruments.
5. Design and conduct a well-controlled experiment.
6. Identify which statistical analyses are appropriate for various experimental designs.
7. Use statistical software (SPSS) to analyze data.
8. Interpret and draw conclusions from descriptive and inferential statistical analyses.
9. Apply the experimental method to answer questions about behavior through participation in laboratory exercises and experiments.
10. Develop necessary skills for an efficient review of the psychological literature using a computerized index (PsycInfo).
11. Prepare written reports according to the stylistic conventions of the American Psychological Association.

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6. Course Content in Outline Form. (Be as brief as possible, but use as much space as necessary)

OLD

Need for quantitative methods in science in general and psychology in specific
 Scientific and statistical methods as ways to reason inductively and deductively about human behavior
 The research process
 Selecting a problem and reviewing the research
 Sampling and generalizability
 Measurement, reliability, and validity
 Methods of measuring behavior
 Data collection and descriptive statistics Descriptive, historical and correlational methods of research and appropriate data analysis strategies
 Qualitative methods and appropriate data analysis strategies
 Experimental research methods and appropriate data analysis strategies
 Quasi-experimental research methods and appropriate data analysis strategies
 Writing a research proposal
 Writing a research manuscript

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Need for quantitative methods in science in general and psychology in specific
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 Qualitative methods and appropriate data analysis strategies
 Experimental research methods and appropriate data analysis strategies
 Quasi-experimental research methods and appropriate data analysis strategies
 Writing a research proposal
 Writing a research manuscript

Does this course content overlap with a course offered in your academic program? Yes No

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

Does this course content overlap a course offered in another academic area? Yes No

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

Overlapping courses require Chairs' signatures.

7. Cross-listed Courses (Please note each prefix in item No. 1)

- A. List cross-listed courses (Signature of Academic Chair(s) of the other academic area(s) is required).
- B. List each cross-listed prefix for the course:
- C. Program responsible for staffing:

8. References. [Provide 3-5 references]

OLD American Psychological Association. (2009). Publication manual of the American Psychological Association (6th ed.). Washington, DC: Author.
 George, D., & Mallery, P. (2002). SPSS for Windows step by step: A simple guide and reference (4th ed.). New York: Allyn & Bacon.

McBurney, D. H. (2002). *How to think like a Psychologist: Critical thinking in Psychology*. New Jersey: Prentice-Hall. Myers, A., & Hansen, C. (1997). *Experimental psychology* (4th ed.). Pacific Grove, CA: Brooks/Cole Publishing Salkind, N. J. (2002). *Exploring research* (5th ed). New Jersey: Prentice-Hall.

NEW Jackson, S. L. (2008). *Research Methods and Statistics: A Critical Thinking Approach* (3rd ed.). Belmont, CA: Wadsworth Publishing.

Stern, L. D. (2009). *A Visual Approach to SPSS for Windows: A Guide to SPSS 17.0* (2nd ed.). Boston, MA: Allyn & Bacon.

Stanovich, K. E. (2009). *How to Think Straight About Psychology* (9th ed). Boston, MA: Allyn & Bacon.

9. Tenure Track Faculty qualified to teach this course.

All tenure track Psychology faculty

10. Requested Effective Date or First Semester offered: Fall, 2010

11. New Resource Requested: Yes No

If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)

B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)

C. Facility/Space/Transportation Needs:

D. Lab Fee Requested: Yes No (Refer to the Dean's Office for additional processing)

E. Other.

12. Indicate Changes and Justification for Each. [Check all that apply and follow with justification. Be as brief as possible but, use as much space as necessary.]

- | | |
|---|---|
| <input type="checkbox"/> Course title | <input checked="" type="checkbox"/> Course Content |
| <input type="checkbox"/> Prefix/suffix | <input type="checkbox"/> Course Learning Objectives |
| <input type="checkbox"/> Course number | <input checked="" type="checkbox"/> References |
| <input type="checkbox"/> Units | <input type="checkbox"/> GE |
| <input type="checkbox"/> Staffing formula and enrollment limits | <input type="checkbox"/> Other <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Prerequisites/Corequisites | <input type="checkbox"/> Reactivate Course |
| <input checked="" type="checkbox"/> Catalog description | |
| <input checked="" type="checkbox"/> Mode of Instruction | |

Justification: Reduces number of prerequisites for the course. Also what used to be laboratory hours are now activity hours that are more intensive and go beyond just using a computer to do statistical problems.

13. Will this course modification alter any degree, credential, certificate, or minor in your program? Yes No

If, YES attach a program update or program modification form for all programs affected.

Priority deadline for New Minors and Programs: October 5, 2009 of preceding year.

Priority deadline for Course Proposals and Modifications: November 2, 2009.

Last day to submit forms to be considered during the current academic year: April 15th.

Harley Baker

21 February
2010

Proposer(s) of Course Modification

Date

Type in name. Signatures will be collected after Curriculum approval.

Approval Sheet

Course:

If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

Program Chair		
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Signature

Date

Program Chair		
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Signature

Date

Program Chair		
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Signature

Date

General Education Chair		
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Signature

Date

Center for Intl Affairs Director		
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Signature

Date

Center for Integrative Studies Director		
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Signature

Date

Center for Multicultural Engagement Director		
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Signature

Date

Center for Civic Engagement and Service Learning Director		
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Signature

Date

Curriculum Chair		
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Signature

Date

Dean of Faculty		
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Signature

Date