

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by October 15, 2010, and finalized by the end of the fall semester to make the next catalog (2011-12) production

DATE (CHANGE DATE EACH TIME REVISED): OCTOBER 14, 2010; REV 12.17.10

PROGRAM AREA(S): PSYCHOLOGY

Directions: All of sections of this form must be completed for course modifications. Use YELLOWED areas to enter data. 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# 300 Title PSYCHOLOGICAL RESEARCH AND STATISTICAL METHODS I
 Units (3)
 2 hours lecture per week
 2 hours activity per week

X Prerequisites: PSY 202, 212, 213, 217 and Upper Division Standing, or consent of instructor

Consent of Instructor Required for Enrollment

Corequisites:

Catalog Description (Do not use any symbols): Introduction to research methodology and a basic framework to evaluate social and behavioral science research. 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 202.

NEW

Prefix PSY Course# 300 Title PSYCHOLOGICAL RESEARCH AND STATISTICAL METHODS I
 Units (4)
 3 hours lecture per week
 2 hours activity per week

X Prerequisites: PSY 100, PSY 202 or equivalent, and Upper Division Standing, or consent of instructor

Consent of Instructor Required for Enrollment

Corequisites:

Catalog Description (Do not use any symbols): Introduction to research methodology and a basic framework to evaluate social and behavioral science research. 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 202

Graded

General Education Categories
 Lab Fee Requested

CR/NC

X A - F

Repeatable for up to units
 Total Completions

Course Level:
 X Undergraduate
 Post-bac/Credential
 Graduate

Optional (Student's choice)

Multiple Enrollment in same semester

Graded

General Education Categories
 Lab Fee Requested

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X A - F

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 Total Completions

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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
Lecture	<u>2</u>	<u>1</u>	<u>25</u>	X
Seminar	<input type="checkbox"/>	<u>1</u>	<input type="checkbox"/>	<input type="checkbox"/>
Lab	<u>1</u>	<u>2</u>	<u>25</u>	X
Activity	<input type="checkbox"/>	<u>2</u>	<input type="checkbox"/>	<input type="checkbox"/>

	Units	Hours Per Unit	Benchmark Enrollment	Graded	CS No. (filled out by Dean)
Lecture	<u>3</u>	<u>1</u>	<u>25</u>	X	<input type="checkbox"/>
Seminar	<input type="checkbox"/>	<u>1</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lab	<input type="checkbox"/>	<u>2</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Activity	<u>1</u>	<u>2</u>	<u>25</u>	X	<input type="checkbox"/>

Field Studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Field Studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Indep Study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Indep Study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other blank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other blank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.

X Requirement for the Major/Minor

Elective for the Major/Minor

Free Elective

NEW

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X Requirement for the Major/Minor

Elective for the Major/Minor

Free Elective

Submit Program Modification if this course changes your program.

5. Student Learning Outcomes. (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. Articulate the basic tenets of the empirical method in psychology.
2. Explain why psychology is a science.
3. 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.

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

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1. Articulate the basic tenets of the empirical method in psychology.
2. Explain why psychology is a science.
3. 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.

4. Develop testable hypotheses derived from a theory.
5. Identify and apply various research designs in new situations.
6. Create and critique questionnaires/survey instruments.
7. Identify which statistical analyses are appropriate for various research designs.
8. Use statistical software (SPSS) to analyze data.
9. Interpret and draw conclusions from descriptive and inferential statistical analyses.
10. Apply the experimental method to answer questions about behavior through participation in laboratory exercises and experiments.
11. Develop necessary skills for an efficient review of the psychological literature using a computerized index (PsycInfo).
12. 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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- 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. (2002). Publication manual of the American Psychological Association (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: 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. (2009). Research Methods and Statistics: A Critical Thinking Approach, 3rd Edition. Belmont, CA: Thompson/Wadsworth.
Stanovich, K. E. (2010). How to Think Straight about Psychology, 9th Edition. Boston, MA: Allyn & Bacon.
American Psychological Association (2009). Publication Manual of the American Psychological Association, 6th Edition. Washington, DC: Author.
Howell, D. C. (2004). Fundamental Statistics for the Behavioral Sciences, 5th Edition. Belmont, CA: Brooks/Cole-Thomson Learning.
Stern, L. (2010). A Visual Approach to SPSS for Windows: A Guide to SPSS 17.0, 2nd Edition. Boston, MA: Allyn & Bacon.

9. Tenure Track Faculty qualified to teach this course.

All Psychology tenure track faculty

10. Requested Effective Date or First Semester offered: Fall 2011

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 type="checkbox"/> Course Content |
| <input type="checkbox"/> Prefix/suffix | <input type="checkbox"/> Course Learning Outcomes |
| <input type="checkbox"/> Course number | <input type="checkbox"/> References |
| X Units | <input type="checkbox"/> GE |
| <input type="checkbox"/> Staffing formula and enrollment limits | X Other Reduce prerequisites; add a prerequisite |
| <input type="checkbox"/> Prerequisites/Corequisites | <input type="checkbox"/> Reactivate Course |
| X Catalog description | |
| X Mode of Instruction | |

Justification:

1. In the proposed course modification, we request to increase the number of units for the lecture section from 3 units (2 hours) to 4 units (3 hours). The existing two-hour lecture per week does not provide sufficient time to cover the vast research methodologies as well as statistical concepts and applications that are typically found in upper division Research and Statistical Methods courses. More importantly, in order to meet the learning outcomes for this course, students are required to become proficient in the following main areas: (a) statistical computations; (b) application of statistics and research methods to create empirical studies; (c) critically review and evaluate research in the field to produce better study designs; (d) write a research proposal; (e) present findings; and (d) write a research manuscript. This type of activity-based learning technique, coupled with the rigorosity of the materials, would necessitate three hours or more of course lecture time. As stated in Item #6, only the mode of delivery and not the content of the course will be modified for this proposal.
2. Several of the prerequisites (i.e., PSY 212, 213, 217) are not needed for successful completion of this course and hence, are unnecessary barriers to student progress. These prerequisites have been eliminated in the proposal. In addition, we have now added PSY 100, which provides an introductory basic exposure to the theories, research, and applications that constitute the field of psychology.
3. The catalog description will be revised to match the above-mentioned modification. No other changes will be made.

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 4, 2010** of preceding year.
Priority deadline for Course Proposals and Modifications: **October 15, 2010**.
Last day to submit forms to be considered during the current academic year: **April 15th**.

Kimmy Kee-Rose
Harley Baker
Kevin Volkan

October 14,
2010

Proposer(s) of Course Modification
Type in name. Signatures will be collected after Curriculum approval.

Date

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