

A: Division: ACADEMIC DATE: APRIL 1990
 B: Department: SOCIAL SCIENCES New Course: _____
 Revision of Course Information form: X
 DATED: OCTOBER 1975

C: PSY 301 D: RESEARCH METHODS IN PSYCHOLOGY E: 3
 Subject & Course No. Descriptive Title Semester Credit

F: Calendar Description:
 This course introduces students to the philosophy of science, ethics, and the use of the empirical method. Students learn how to design, carry out and write up their own experiments and to critically analyze experimental research. Computerized data analysis is also introduced.

Summary of Revision:
 (Enter date & section)
 Ex: Section C,E,F, & R
 C, D, F, G, M, N, O, P, Q,R

G: Type of Instruction: Hours Per Week/ Per Semester

Lecture	<u>4</u>	Hrs.
Laboratory	_____	Hrs.
Seminar	_____	Hrs.
Clinical Experience	_____	Hrs.
Field Experience	_____	Hrs.
Practicum	_____	Hrs.
Shop	_____	Hrs.
Studio	_____	Hrs.
Student Directed Learning	_____	Hrs.
Other	_____	Hrs.
TOTAL	<u>4</u>	HOURS

H: Course Prerequisites:
 PSY 200

I: Course Corequisites:
 NONE

J: Course for which this course is a pre-requisite

K: Maximum Class Size:
 35

L: College Credit Transfer X
 College Credit Non-Transfer _____

M: Transfer Credit:
 Requested X
 Granted _____
 Specify Course Equivalents or Unassigned Credit as Appropriate

U.B.C. PSY 301 (3) = PSY 200 together with PSY 300 (3)
 S.F.U. PSY 301 (3) = PSY 201 (1.5)
 U.Vic PSY 301 (3) = PSY 201 (1.5)

OTHER:

[Signature]
 DIVISIONAL DEAN

[Signature]
 REGISTRAR

[Signature]
 COURSE DESIGNER(S)

[Signature]
 DIRECTOR/CHAIRPERSON

**N: Textbooks and materials to be Purchased by Students
(Use Bibliographic Form):**

Monette, Duane, Sullivan, T., & DeJong, C., (1990) Applied Social Research Second Edition: New York, Holt Rinehart and Winston.

or

Dane, Francis, (1990) Research Methods: Pacific Grove, Brooks/Cole.

or some comparable textbook.

Text will be updated periodically.

Complete Form with Entries Under the Following Headings:

- O. Course Objectives;**
- P. Course Content;**
- Q. Method of Instruction;**
- R. Course Evaluation**

O: Course Objectives

At the conclusion of the course the student will be able to:

1. Identify the major research confounds in psychology.
2. Identify the rationale for an empirical approach to behaviour.
3. Identify the major ethical concerns as they apply to social research projects, especially those using human subjects.
4. Design, conduct and analyze simple experiments and/or surveys.
5. Identify the major design flaws and analysis errors of other experimenters.
6. Use computers to carry out statistical analyses.
7. Explain the differences among conclusions, assumptions, and hypotheses.
8. Define elementary statistical terminology as used in the results sections of research articles in psychology.
9. Impartially use statistical evidence in making decisions about relationships between variables.
10. Explain the relationship between reliability and validity of measurement scales, observations, and behavioral data.

O: Course Objectives cont.

11. Administer surveys or scripted experimental procedures.
12. Code data for computer analysis.
13. Detect and correct data coding errors.
14. Write a report of a study using APA guidelines.
15. Explain the similarities and differences between statistical control and experimental control.
16. Explain the reciprocal relationship between internal validity and generalizability of various research designs.
17. Describe the benefits and limitations of pilot studies.

P: Course Content

1. Introduction to the goals of research
2. The power and limitations of the scientific method
3. Research ethics
4. Reviewing scientific literature
5. Design of laboratory experiments
6. Design of Quasi-experimental research
7. Design of survey research
8. Design of field research
9. Content analysis methods
10. Single-subject research designs
11. Statistical analysis of research projects
12. The third variable problem
13. Psychological measurement
14. Sampling methods
15. Evaluation research methods
16. Research report writing

Q: Method of Instruction

This course will employ a number of instructional methods to accomplish its objectives and will include some of the following:

- lectures
- audio visual materials
- small group discussion
- research projects
- computer based tutorial exercises

R: Course Evaluation

Evaluation will be carried out in accordance with Douglas College policy and will include both formative and summative components. Evaluation will be based on some of the following: quizzes, multiple choice exams, essay type exams, term paper or research project, computer based assignments, etc. The instructor will provide the students with a course outline listing the criteria for course evaluation. An example of one evaluation scheme:

12 quizzes	50%
Computer based homework assignments	10%
Term project paper	30%
Final Exam	10%
	100%

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