

WEBSTER UNIVERSITY COURSE SYLLABUS

COURSE: LEAD 6007 I1-Topics in Educational: Ed Statistics Review
TERM: Spring 2002 (Wednesday, 5:00-8:20 p.m., OFFC, Jan. 8-29)
Instructor: Joseph Sartorius, Ph.D.
Office: Sappington Elementary School
11011 Gravois Rd., St. Louis, St. Louis, Missouri 63126
Telephone: Home (314) 842-2683 E-mail - Sartorius5@Juno.com
Office Hours: Class time on Wednesday, or by appointment.
Textbooks
Required: Kohn, Alfie (2000) The Case Against Standardized Testing.
Portsmouth, NH: Heinemann.

Course Bulletin Description:

A graduate course in testing and measurement theory in the affective behavior domain: reliability, validity, and associated descriptive statistics; correlation and simple regression; derived and transformed scores; interpretation of test scores for the school principal to evaluate programs and improvement of instruction.

Course Purpose:

This course introduces the student to the terms, concepts, and theories used in and underlying educational and psychological testing and measurement used by a school principal. Students will be instructed in the procedures used to manipulate and interpret test scores. Focus is on information about formal, standardized (norm-referenced) tests for individual student, group, and program evaluation purposes. Contemporary testing and measurement issues will be discussed. Computer usage will be integrated into the classroom.

Course Objectives:

- Know the definition and meaning of commonly used terms and concepts in the field of testing, measurement, and evaluation.
- Manipulate test scores and information in order to construct pictorial representations of sets of scores and to calculate commonly used test scores.
- Understand and apply norm-referenced testing interpretation and criterion-referenced testing interpretation.
- Understand and apply the concepts of reliability, validity, and measurement error to test score interpretation, test selection, and test improvement.
- Investigate the legal, ethical, and contemporary issues confronting and shaping the field of testing and measurement.
- Learn and use the writing style and format requirements of the American Psychological Association.
- Learn and use computer programs to calculate statistics and graph test

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information.

Method of Instruction:

The course objectives and purpose will be pursued and conveyed by use of lecture, discussion, video presentations, assigned readings and projects, and student presentations.

Evaluation Criteria:

Evaluation will be based on the mastery/passing of required projects designated on a Grade Contract with the instructor. The "Grading System" awards an "A" for passing two activities, a "B" for passing one activity. The activities to choose from are a topic paper based on an instructional topic and a test evaluation project. Class attendance is expected and the instructor reserves the right to lower a grade because of absences without prior notice.

Syllabus

Course Outline:

<u>Date</u>	<u>Topic or Activity</u>
1/8	Introduction and course overview, NRT vs. CRT. Norms and basic statistical concepts. Correlation and regression, video: "Statistics at a Glance." Read <u>The Case Against Standardized Testing</u> .
1/15	Reliability Validity and standard error of measurement. Missouri Assessment Program Discuss <u>The Case Against Standardized Testing</u> .
1/22	Selecting and developing quality test Test administration concerns and alternatives. TerraNova
1/29	Discussion & Presentations

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Testing issues and trends.

TEST EVALUATION PROJECT DUE

All outstanding projects due.