

Psychology 5330/6330 - Psychometrics

Instructor: David W. Bush, Ph.D. david.bush @ usu.edu (435)797-1012
UMC 0115 FAX (435)797-0855
TSC 306 M-F (8:00-8:30 AM)

Text: Gregory, R.J. Psychological Testing: History, Principles and Applications-5th Ed.
Allyn & Bacon, 2007.

Objectives: Psychometrics is the study of mental measurement, specifically, the assessment of aptitudes, interests and abilities. Students will review the appropriate use of tools designed to profile personality, estimate intelligence, illuminate interests and assess adjustment. Sound principles of testing will be covered, including validity and reliability and a variety of commonly used instruments will be critiqued. Course participants will complete a battery of tests as subjects and review their experience. Computerized and clinician generated interpretations will be compared, and cultural variables that modify these interpretations will be considered. Application of assessment across multiple settings: public schools, colleges and universities, vocational counseling centers, career and placements centers, and businesses; will be taught via case studies. Finally, the ethics and future of assessment will be discussed.

Schedule: **Thursdays (4:30-7 PM)**

<u>Date</u>	<u>Chap</u>	<u>Topic</u>	<u>Assignment</u>
8/28	1/2	Introduction/Applications/History/Ethics	Contract
9/4	3	Norms and Reliability	
9/11	4	Validity & Test Development	Quiz #1
9/18		EXAM ONE (Chapters 1-4)	
9/25	5	Intelligence/Achievement Testing	
10/2	6	Ability Testing/Test Bias	Critique #1
10/9	7	Testing Disabilities/Special Populations	Quiz #2
10/16		EXAM TWO (Chapters 5-7)	
10/23	8	Theories of Personality/Projective Tests	Critique #2
10/30	9	Personality/Behavioral Assessment	Quiz #3
11/6		EXAM THREE (Chapters 8-9)	
11/13	10	Neuropsychological Testing	
11/20	11	Industrial/Forensic Testing	Quiz # 4
11/27		Thanksgiving	
12/4	12	Testing and the Law/Computerized	Critique #3
12/11		FINAL EXAM (Chapters 10-12)	Sample Test

Evaluation: Student performance will be measured on four quizzes, three exams and three critiques and a sample test. The assignments and relative impact on final grades are as follows:

Quizzes

Designed to encourage reading of the text and preparation for class, four quizzes will be administered at the beginning of the class period (rewarding punctuality) and cannot be made up if missed. Each quiz will have five questions (5 points each) from the chapter of study for that evening and will serve to prepare students for exams.

Exams

Consisting of definition, multiple choice, brief response and short essay, exams will be worth 100 points and cover material from the unit outlined on the corresponding study guides. All test questions are from the text or class lecture and will be reviewed the week before the exam in class.

Critiques

Students will be required to complete three critiques, the first related to either a test of intelligence or achievement, the second related to either an interest inventory or aptitude test and the third related to a personality inventory or clinical adjustment scale. Students may take the test first hand, as part of their experience and then review material on the Internet or published articles summarizing the reliability and validity of the instrument. Brief interpretation of the findings of the test should be included, with strengths and limitations. The following outline will serve as a guide for the 2-3 page paper organized by students:

Introduction/Description - a brief summary of the test being critiqued, the purpose of the test and a short outline of how it is organized and administered.

Reliability/Validity - statistical summary of the psychometric properties of the instrument and how these properties were determined.

Reviews - a brief summary of research on the test and the impressions, including strengths and weaknesses of the test.

Application/Summary - a statement of the settings in which the test has been used or might be used and the potential value of the instrument.

Sample Test

Students will prepare a final exam (100 Points) assessing knowledge from chapters 10 thru 12. Multiple choice, matching, true/false, fill in the blank or essay format may be used. Students will critique each others exams for test construction and validity.