

**Measurement and Evaluation (EDP 380P)**

Summer, 2013

INSTRUCTOR: Barbara G. Dodd

OFFICES: SZB 538L, Sanchez Building

OFFICE HOURS: Monday, Tuesday, and Wednesday, 1:00 to 2:00 and by appointment

PHONE: 471-0188

EMAIL: [bdodd@austin.utexas.edu](mailto:bdodd@austin.utexas.edu)

OPTIONAL TEXT: Cohen, R. J., & Swerdlik, M. E. (2010). *Psychological testing and assessment: An introduction to tests and measurement*. (7th ed.). Boston: McGraw Hill.

REQUIRED TEXT: A packet of selected reading available from I.T. Copy; 512 W. M.L.K., 476-6662.

**COURSE REQUIREMENTS:**

1. Take-home exam over unit I
2. In-class exam over unit II
3. Take-home exam over unit III
4. In-class exam over units IV

EVALUATION: Grades will be based on an average of the four requirements above, with each counting equally.

GRADES: 93% or more A  
90% to 92% A-  
87% to 89% B+  
83% to 86% B  
80% to 82% B-  
etc.

**ADA ACCOMMODATIONS:**

The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of the Dean of Students at 471-6259, 471-4641 TTY.

**RECOMMENDED SUPPLEMENTARY REFERENCES:**

Miller, M. D., Linn, R. L., & Gronlund, N. (2009). *Measurement and assessment in teaching*. (10th ed.). Englewood Cliffs, NJ: Prentice Hall.

Thorndike, R. M. & Thorndike-Christ, T. (2009). *Measurement and evaluation in psychology and education*. (8th ed.). Upper Saddle River, NJ: Prentice Hall.

OUTLINE OF TOPICS AND OPTIONAL READING ASSIGNMENTS:

| TOPICS                                                     | READINGS                              |
|------------------------------------------------------------|---------------------------------------|
| I. Psychometric Principles and Procedures                  |                                       |
| A. General principles and basic concepts                   | Ch. 1                                 |
| B. Test administration and scoring                         | Ch. 1                                 |
| C. Social and ethical implications of testing              | Ch. 2                                 |
| D. Descriptive statistics                                  | Ch. 3, pp. 72-95                      |
| E. Scores and norms                                        | Ch. 3, pp. 96-100; Ch. 4, pp. 111-122 |
| II. Psychometric Theory: Types of Reliability and Validity |                                       |
| A. Correlation methods                                     | Ch. 4, pp. 124-135                    |
| B. Reliability estimation and interpretation               | Ch. 5                                 |
| C. Validity estimation and interpretation                  | Ch. 6, pp. 172-185, 193-198           |
| III. Designing Tests                                       |                                       |
| A. Behavioral objectives                                   |                                       |
| B. Item writing                                            | Ch. 8, pp. 244-253                    |
| C. Item analysis                                           | Ch. 8, pp. 255-260, 262-265           |
| D. Attitude scales                                         | Ch. 8, pp. 239-243; Ch. 16, 582-583   |
| IV. Testing in Educational Settings                        |                                       |
| A. Uses of tests                                           | Ch. 11                                |
| B. Individual tests                                        | Ch. 10, pp. 310-336                   |
| C. Group Tests                                             | Ch. 10, pp. 336-341                   |
| D. Testing special populations                             | Ch. 1, pp. 25-30; Ch. 9, pp. 302-309  |
| E. Psychological issues                                    | Ch. 9, pp. 295-302                    |
| F. Interest Inventories                                    | Ch. 16, pp. 545-548                   |

TENTATIVE SCHEDULE:

- 6/10 Introduction, General Principles
- 6/11 Test Administration, Social and Ethical Implications
- 6/12 Descriptive Statistics, Scores and Norms - Exam I
- 6/17 Exam I due, Correlation and Regression
- 6/18 Reliability
- 6/19 Reliability, Validity
- 6/24 Validity, Review
- 6/25 Exam II, Behavioral Objectives
- 6/26 Item Writing - mc & essay, Item Analysis - mc & essay
- 7/1 Item Writing & Item Analysis - attitude scales
- 7/2 Exam III, Use of Ed. Tests, Individual Tests
- 7/3 Group Tests, Special Populations
- 7/8 Exam III due, Psychological Issues, Interest Inventories
- 7/9 Review/CIS
- 7/10 Exam IV

EXAM DATES:

- I 6/12 due 6/17
- II 6/25
- III 7/2 due 7/8
- IV 7/10