

## APPLIED PSYCHOMETRICS

INSTRUCTOR:	Barbara G. Dodd
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OFFICE HOURS:	Monday 1:00 – 4:00 and by appointment
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REQUIRED TEXT:	<p>Cizek, G. J. &amp; Bunch, M. B. (2007). <i>Standard Setting: A guide to establishing and evaluating performance standards on tests</i>. Thousand Oaks: Sage Publications.</p> <p>A packet of selected reading available from Jenn's Copy &amp; Binding, 2518 Guadalupe St., (512) 482-0779.</p>
COURSE REQUIREMENTS:	Four unit assignments
EVALUATION:	Course grade will be based on an average of the letter grades earned on the unit assignments, with each counting equally.
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:	

- Applied Measurement in Education*. (Number 1, 2005). Vertically moderated standard setting. (Includes six papers). [Special issue].
- Applied Psychological Measurement*. (July, 2004). Concordance. (Includes five papers.) [Special issue].
- Journal of Educational Measurement*. (Spring, 2004). Assessing the population sensitivity of equating functions. (Includes four papers.) [Special issue].
- Cizek, G. J. (Ed.) (2012). *Setting performance standards: Foundations, methods and innovations*. Marceline, MO: Wadsworth Publishing Co.
- Holland, P. H. & Wainer, H. (Eds.) (1993). *Differential item functioning*. Hillsdale NJ: Lawrence Erlbaum Associates.
- Kolen, M. J., & Brennan, R. L. (2014). *Test equating, scaling, and linking: Methods and practices*. New York: Springer.
- Wainer, H. & Braun, H. I. (Eds.) (1988). *Test validity*. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.

## OUTLINE OF TOPICS AND REQUIRED READING ASSIGNMENTS

### TOPICS

### READINGS

#### I. Methods of Equating Test Scores

Angoff, chapter 3

Crocker & Algina, chapter 20

A. Equipercentile

B. Linear

C. Item Response Theory

#### II. Methods of Setting Standards

Cizek, Chapter 1-3, 6, 8, 9, 10

A. Judgments Based on Test Items

B. Judgments Based on Individual Examinees

C. Judgments Based on a Group of Examinees

#### III. Selection, Placement, and Classification

Crocker & Algina, chapter 12

A. Regression Technique

B. Multiple Cutoff Score Technique

C. Bias in Selection

#### IV. Methods of Detecting Differential Item Functioning

Holland & Thayer, chapter 9

A. Item Response Theory

B. Chi-Square

C. Item Difficulty

D. Mantel & Haenszel

E. SIBTEST

TENTATIVE SCHEDULE:

1/22	CTT equating
1/29	CTT equating
2/5	IRT Review, equating, assignment 1
2/12	NO class, work on assignment 1
2/19	Standard Setting – Item centered plus Angoff demonstration
2/26	Ebel, bookmark, Examinee centered approaches – Borderline, booklet classification
3/5	Contrasting groups, smoothing, up-and-down method, MEC approaches
3/12	Spring Break
3/19	MEC Approaches, New advances, assignment 2, Selection, Placement
3/26	Selection, Placement
4/2	Selection, Placement, assignment 3
4/9	DIF
4/16	AERA & NCME - NO class
4/23	DIF, assignment 4
4/30	Review and CIS

UNIT ASSIGNMENTS:

- I 2/5 due 2/19
- II 3/19 due 3/26
- III 4/2 due 4/9
- IV 4/23 due 4/30