

## **WITTA, Eleanor Lea**

**Associate Professor,  
Appointed 1999**

**The University of Central Florida  
Educational Research, Technology, and Leadership**

### **Academic Degrees**

**Ph.D. (1992) Virginia Polytechnic Institute & State University, Educational  
Research & Evaluation with measurement cognate**

**M.Ed. (1973) Texas A & M University. Educational Curriculum & Instruction**

**B.A. (1964) West Virginia University, Psychology**

### **Professional Experience**

**2001-present Associate Professor of Research, Department of Educational  
Research, Technology, and Leadership, University of Central  
Florida**

**2001-present Coordinator of the Research Program, Department of Educational  
Research, Technology, and Leadership, University of Central  
Florida**

**Responsible for:**

**Scheduling research classes**

**Maintaining records of enrollment in classes**

**Conducting meetings of the Research Program faculty**

**Mentoring new faculty**

**Coordinating development of new programs/classes**

**1999-2001 Associate Professor of Research, Department of Educational  
Foundations, University of Central Florida**

**1995-1999 Assistant Professor of Research, Department of Education  
Leadership and Research, University of Southern Mississippi**

**1994 Full-time Adjunct Professor of Research, Department of Educational  
Leadership, East Tennessee State University**

**1992-1993 Adjunct Professor of Research, Department of Educational  
Leadership, East Tennessee State University**

**1968-1980 Earth and General Science Teacher, Collegiate Professional**

Certificate, Virginia Public Schools, 9 years experience

## HONORS AND AWARDS

**2006 Research Incentive Award (RIA)**

Awarded by the University of Central Florida

**2005 Biography included in the 25<sup>th</sup> anniversary edition of *Who's Who of American Women*, Marquis Who's Who.**

**2004 Teaching Incentive Program Award (TIP)**

Awarded by the University of Central Florida

**2001 Certificate for Outstanding Service**

Awarded by Southwestern Educational Research Association

**2000 Certificate for Outstanding Service**

Awarded by Southwestern Educational Research Association

**1993 Outstanding Paper of the Year**

Awarded by Eastern Educational Research Association

## RESEARCH AND CREATIVE ACTIVITIES

### Research focus:

Application of Quantitative Methods in three interrelated areas:

**Research Methodology**

Effect of missing data method, of alternative statistics, of sample size

**Measurement & Evaluation**

Validity/reliability of instruments specifically within: the elderly population, classroom, iTEC programs

**Special Populations**

Evaluating change using growth curve methodology in: the elderly population, k-12 students

### Book Chapters (Refereed)

Witta, E.L. & Lee, C. (2005). Developing an online learning style instrument. In J. Boettcher, C. Howard, L. Justice, & K. Schenk (Eds.), *Encyclopedia of online*

*learning and technology*. Hershey, PA: IDEA Group Inc.

Witta, E.L. (2005). Achievement in online versus traditional classes. In J. Boettcher, C. Howard, L. Justice, & K. Schenk (Eds.), *Encyclopedia of online learning and technology*. Hershey, PA: IDEA Group Inc.

### Articles (Refereed)

Kunnath, M.L.A., Cornell, R.A., Kysilka, M.K., & Witta, L. (2007). An experimental research study on the effect of pictorial icons on a user-learner's performance. *Computers in Human Behavior*, 23, 1454-1480.

Sivo, S.A., Fan, X., Witta, E.L., & Willse, J. (2006). The normative claims of fit index research: Cut-off criteria. *Journal of Experimental Education*, 74, 267-288.

Lee, J., Orwig, G., Gunter, G. & Witta, L. (2006). The effect of cognitive styles on a visually-oriented task in online learning environments. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2006* (pp. 3489-3494). Chesapeake, VA: AACE.

Sivo, S.A., Fan, X., & Witta, E.L. (2005). The biasing effects of unmodeled ARMA time series processes on latent growth curve model estimates. *Structural Equation Modeling*, 12 (2), 215-232.

Taub, G.E., McGrew, K.S., & Witta, E.L. (2004). A confirmatory analysis of the factor structure and cross-age invariance of the Wechsler Adult Intelligence Scale-Third Edition. *Psychological Assessment*, 16(1) (In Press).

Brubaker, C., Witta, E.L., & Angelopoulos, T.J. (2003). Quality of life and exercise tolerance are maintained with long-term participation in a hospital based wellness program for individuals with CHF. *Journal of Cardiopulmonary Rehabilitation*.

Baumbach, D., Wang, M., & Witta, L. (2003). Next findings: Florida library media survey. *Florida Media Quarterly*, 28(3), 30-33.

Heyn, P.C., Witta, E.L., Rohter, F.D., Whiteside, J. Tucker, R., & Mitchell, D. (2003). Effects of exercise training on individuals with Alzheimer's disease and related disorders: A meta-analysis. *Medicine & Science in Sports & Exercise*, 35(5) S351. (Abstract)

Brubaker, C., Witta, E.L., & Angelopoulos, T.J. (2003). Comparison of changes in exercise tolerance and quality of life between congestive heart failure and coronary artery bypass graft patients following a hospital-based cardiac

- rehabilitation program. *Journal of Exercise Physiology (online)* 6(1)  
[available <http://www.css.edu/users/tboone2/asep/BrubakerWord.doc>]
- Baumbach, D., Wang, M., & Witta, L. (2002). First findings: Florida library media survey. *Florida Media Quarterly*, 28(1), 30-31.
- Heyn, P.C., Whiteside, J., Witta, E.L., & Rohter, F.D. (2002). Effects of a wellness-based exercise intervention program on Alzheimer's disease. *Medicine & Science in Sports & Exercise*, 34(5) S158-.
- Lee, C., & Witta, E. L., (2001). Online students' perceived self\_efficacy: Does it change? *Proceedings of 2001 the Association for Educational Communications and Technology (AECT) International Convention*
- Witta, E.L. (2001). Does method of handling missing data affect the results of a structural equation model? *Changing Schools*, 30-40.
- Witta, E.L. (2001). Does method of creating the sample influence missing data decisions? *Changing Schools*, 23-30.
- Witta, E.L. (2000). Effectiveness of four methods of handling missing data using samples from a national database. *Teacher Education Yearbook*, 28.
- Witta, E.L. (2000). Educational interactive video for high school students: How do teachers perceive the program? *Proceedings of the annual meeting of the American Society for Information Science*, 7(2), 31.
- Witta, E.L. (2000). Are values missing randomly in survey research? *Educational Research Quarterly*, 23 (3), 44-56.
- Keith, T.Z. & Witta, E. L. (1999). How we used confirmatory factor analysis to test the structure of the Wechsler Intelligence Scale for Children--Third Edition. In Cohen, R.J. & Swerdlik, M.E. *Psychological Testing and Assessment: An Introduction to Tests and Measurement*. (pp. 311-315) Mayfield.
- Witta, E.L. (1999). High school student - High school parent: Are there differences in perceived strengths and weaknesses of an educational interactive video program? *Pacific Educational Research Journal*, 9(1), 40- 50.
- Witta, E.L. (1998). Review of *Skills Inventory for Teams*. In J. C. Impara, & B. S. Plake (Eds.), *The Thirteenth Mental Measurements Yearbook* (pp. 915-916). Lincoln, NB: University of Nebraska Press.
- Witta, E.L. (1998). Review of *PSC Survey-SA*. In J. C. Impara, & B. S. Plake (Eds.), *The Thirteenth Mental Measurements Yearbook* (pp 248-249). Lincoln, NB: University of Nebraska Press.

- Gustafson, R., Yssel, J., & Witta, L. (1997). Advertising practitioners' attitudes toward their trade. *Proceedings of the Conference of the American Academy of Advertising*, 114-122.
- Witta, E.L. (1997). Randomness of missing values in survey data. *Louisiana Education Research Journal*, XXII (2), 73-86.
- Keith, T.Z. & Witta, E.L. (1997). Hierarchical and cross-age confirmatory factor analysis of the WISC-III: What does it measure? *School Psychology Quarterly* (12) 89-107.
- Gustafson, R., Yssel, J., & Witta, L. (1997). Advertising practitioners' attitudes toward their trade. *Communicatio* 23 (1), 55-65.
- Mathews, B., & Witta, L. (1996). Strengths, weaknesses and suggested improvements of an educational interactive video teaching program. *Collaborative Communications Review*. 13-22. (Formerly known as the ITCA Teleconferencing Yearbook)
- Gustafson, R., Yssel, J., & Witta, L. (1996, September). Ad agency employees give views on Calvin Klein, Benetton ads. *Marketing News* 30, (20), 16.

### Dissertation

- Witta, E.L. (1992). Seven methods of handling missing data using samples from a national data base, dissertation.

### ERIC Documents (Refereed)

- Witta, E.L. & Sivo, S.A. (2003). *Latent growth modeling of cognition in the elderly*. (ERIC Document Reproduction Service No. ED478197).
- Witta, E.L. & Sivo, S.A. (2002). *Measuring cognitive function: An empirical investigation of the psychometric properties of a cognitive measure*. (ERIC Document Reproduction Service No. ED478198).
- Shore, W., Katt, J., Lee, C., Rasmus, S., Saenz, K., Speranza, L. & Witta, E. L. (2002). *Structural equation modeling analysis of the effects of social and biological factors on geriatric cognition: Does sex matter?* (ERIC Document Reproduction Service ED470675).
- Witta, E.L. (2001). *Does method of creating the sample influence missing data decisions?* (ERIC Document Reproduction Service ED454244).

- Witta, E.L. (2001). *Does method of handling missing data affect the results of a structural equation model?* (ERIC Document Reproduction Service ED454245).
- Lee, C.Y. & Witta, E. L. (2001). *Online students' perceived self-efficacy: Does it change?* (ERIC Document Reproduction Service ED470094).
- Witta, E. L. (2000). *Comparison of missing data treatments in producing factor scores.* (ERIC Document Reproduction Service ED447207).
- Witta, E. L. (2000). *Educational interactive video for high school students: How do teachers perceive the program?* (ERIC Document Reproduction Service ED447809).
- Witta, E. L. (2000). *Effectiveness of four methods of handling missing data using samples from a national database.* (ERIC Document Reproduction Service ED442810).
- Witta, E. L. (2000). *Four methods of handling missing data in predicting educational achievement* (ERIC Document Reproduction Service ED442810).
- Witta, E.L. (1999). *High school student - high school parent: Are there differences in perceived strengths and weaknesses of an educational interactive video program?* (ERIC Document Reproduction Service ED435706).
- Witta, E.L. (1999). *High school student - high school parent: Are there differences in evaluation of an educational interactive video program?* (ERIC Document Reproduction Service ED435707).
- Witta, E.L. & Witta, G.T. (1999). *High school student perceptions of the strengths and weaknesses of an educational interactive video program over a four-year time span: Log-linear analysis.* (ERIC Document Reproduction Service ED430043).
- Witta, E.L. & Gupton, S.L. (1999). *Crossvalidation and confirmatory factor analysis of the 30-item Leadership Behavior Description Questionnaire: Implications for use by graduate students.* (ERIC Document Reproduction Service ED430045).
- Witta, E.L. & Daniel, L.G. (1998). *The reliability and validity of test scores: Are editorial policy changes reflected in journal articles?* (ERIC Document Reproduction Service ED422366).
- Witta, E.L. & Witta, G.T. (1998). *Revision of an evaluation instrument: Will the measuring device provide more reliable or valid scores?*(ERIC Document Reproduction Service ED422367).

Daniel, L.G. & Witt, E.L. (1997). *Implications for Teaching Graduate Students Correct Terminology for Discussing Validity and Reliability Based on a Content Analysis of Three Social Science Measurement Journals*. (ERIC Document Reproduction Service ED408853).

Witt, E.L. (1997). *Chi-Square or loglinear modeling: Is there a difference?* (ERIC Document Reproduction Service ED408311).

Witt, E.L. & Mathews, B. (1997). *Comparison of 1995-96 high school students attitude survey results* (ERIC Document Reproduction Service ED419541).

Witt, E.L. (1996). *Results of an interactive video attitude survey when using the total group with unequal group sizes versus five random samples with equal group sizes*. (ERIC Document Reproduction Service ED398242).

Witt, E.L. & Keith, T.Z. (1994). *Multi-sample hierarchical confirmatory factor analysis of the WISC-R: An old problem revisited*. (ERIC Document Reproduction Service ED388699).

Witt, E.L. (1994). *Are values missing randomly in survey research?* (ERIC Document Reproduction Service ED389727).

Witt, L. & Kaiser, J. (1991). *Four methods of handling missing data with the 1984 General Social Survey*. (ERIC Document Reproduction Service ED339755).

### **Submitted**

Witt, E.L., & Sivo, S.A. (under revision). *Re-examining cognitive decrements in the cognition of the elderly: A latent growth modeling approach*.

Witt, E.L., & Sivo, S.A. (submitted). *Measuring cognitive functioning: An empirical investigation of the psychometric properties of a cognitive measure*.

### **Currently working on**

**Investigating the effects of age differences in the growth curve model of the elderly.  
Can one model represent various ages? Or, what has happened to the individual growth curve model?**

**Investigating the effects of missing values on growth curve models**

**Using bootstrap to demonstrate the construction of normal distribution and statistical inference**

### **Professional Presentations (peer reviewed summaries)**

- Witta, E.L. (2007, April). *Modeling cognition and depression in the aging process: Do males and females differ?* Paper presented at the 89<sup>th</sup> annual meeting of the American Educational Research Association, Chicago.
- Witta, E. L. (2007, April). *Measuring depression: An empirical investigation of the psychometric properties of the shortened CESD.* Paper presented at the 89<sup>th</sup> annual meeting of the American Educational Research Association, Chicago.
- Witta, E. L. (2007, April). *Measuring cognition over time: Equivalence and cross-validation of measures.* Paper presented at the 89<sup>th</sup> annual meeting of the American Educational Research Association, Chicago.
- Katt, J.A., Speranza, L.M., Saenz, K., Witta, E.L., & Shore, W. (2007, April). *Health, Wealth, Education, or Activity: A SEM Analysis of Factors Contributing to Cognition and Positive Affect in Older Adults.* Paper presented at the 89<sup>th</sup> annual meeting of the American Educational Research Association, Chicago.
- Witta, E. L. (2006, April). *Modeling Change in Cognition and Depression of the Elderly.* Paper presented at the 88<sup>th</sup> annual meeting of the American Educational Research Association, San Francisco.
- Katt, J.A., Speranza, L.M., Saenz, K., Witta, E.L., & Shore, W. (2006, April). *Getting Out More: A SEM Analysis of the Relationship Between Various Physical and Psychosocial Factors and Geriatric Engagement in Outward-Oriented Activity.* Paper presented at the 88<sup>th</sup> annual meeting of the American Educational Research Association, San Francisco.
- Witta, E. L. (2005). *Explaining depression and cognition in the elderly: A growth curve modeling approach.* Paper presented at the 87<sup>th</sup> annual meeting of the American Educational Research Association, Montreal, April.
- Witta, E.L. & Sivo, S. (2005). *Measuring cognition: An empirical investigation of the psychometric properties of a cognitive measure.* Paper presented at the 87<sup>th</sup> annual meeting of the American Educational Research Association, Montreal, April.
- Katt, J.A., Speranza, L.M., Saenz, K., Shore, W., & Witta, E.L. (2005). *Time well spent: A structural equation modeling analysis of geriatric activities, depression, and cognition.* Paper presented at the 87<sup>th</sup> annual meeting of the



American Educational Research Association, Montreal, April.

Witta, E.L. (2004). *Analyzing Longitudinal Data: Does Depression Increase as We Age?* Paper presented at the annual meeting of the American Evaluation Association, Atlanta, November.

Witta, E.L. (2004). *Demonstration of Bootstrapping and Permutation*. Professional development demonstration presented at the annual meeting of the American Evaluation Association, Atlanta, November.

Witta, E.L., (2004). *Latent curve analysis of depression in the elderly*. Paper presented at the 86<sup>th</sup> annual meeting of the American Educational Research Association, San Diego, April.

Witta, E.L., & Sivo, S.A. (2004). *Repeated measures or growth curve analysis: Explaining cognitive decline in the elderly*. Paper presented at the 86<sup>th</sup> annual meeting of the American Educational Research Association, San Diego, April.

Saenz, H.K., Speranza, L.M., Witta, E.L., Katt, J.A., & Rasmus, S.D. (2004). *Great, or Not So Great, Expectations: Structural Equation Modeling Analysis of Factors Affecting Positive Expectations*. Paper presented at the 86<sup>th</sup> annual meeting of the American Educational Research Association, San Diego, April. [\*\*Presentation with former students]

Katt, J.A., Witta, E.L., Saenz, H.K., Speranza, L.M., & Rasmus, S.D. (2004). *The Need for Alternative Response Modalities for the Developmentally Delayed, Response Impaired Student*. Paper presented at the 86<sup>th</sup> annual meeting of the American Educational Research Association, San Diego, April. [\*\*Presentation with former students]

Sivo, S., Fan, X., Witta, E.L., & Willse, J. (April, 2004). *The effect of true population model specification on recommended fit index cut-off values*. Paper presented at the 86<sup>th</sup> annual meeting of the American Educational Research Association, San Diego, April.

Symposium Consisting of:

Chu, S.L., & Witta, E.L. (2004). *Predictive validity of the faculty evaluation of instruction instrument*.

Torres-Lugo, C., & Tsai, M.C. (2004). *Validation of the predictive validity of the faculty evaluation of instruction instrument*.

Yuan, R., & Ku, C.H. (2004). *Can graduate/undergraduate status of a class be predicted by the faculty evaluation of instruction instrument?*

Yao, Y., & Tao, Y. (2004). *Are there differences in evaluation of faculty teaching effectiveness between colleges?*

**Presented at the annual meeting of the Eastern Educational Research Association, Clearwater, February, 2004. [Presentation with Students]**

**Witta, E.L. & Brubaker, C. (November, 2003). *Bootstrapping results of exercise therapy and education for patients with congestive heart failure*. Paper presented at the 2003 annual meeting of the American Evaluation Association, Reno. [\*\*Presentation with Former Student]**

**Witta, E.L. & Lee, C.Y. (November, 2003). *Development of a Learning-style Instrument*. Paper presented at the 2003 annual meeting of the American Evaluation Association, Reno. [\*\*Presentation with Former Student]**

**Witta, E.L. & Sivo, S.A. (2003). *Latent growth modeling of cognition among the elderly*. Paper presented at the 85<sup>th</sup> Annual Meeting of the American Educational Research Association, Chicago, April 21-25.**

**Lee, C.Y., Witta, E.L., Shore, W., Speranza, L., Saenz, K., Katt, J., & Rasmus, S. (2003). *Structural equation modeling analysis of the effects of physical and psychosocial factors on depression*. Paper presented at the 85<sup>th</sup> Annual Meeting of the American Educational Research Association, Chicago, April 21-25. [\*\*Presentation with Former Students]**

**Sivo, S.A., Fan, X., & Witta, E.L. (2003). *The full integration of latent growth curve and time series models*. Paper presented at the 85<sup>th</sup> Annual Meeting of the American Educational Research Association, Chicago, April 21-25.**

**Katt, J., Lee, C., Rasmus, S., Saenz, K., Speranza, L., Shore, W., & Witta, E.L. (2002). *A lifetime of learning: Structural equation analysis of factors affecting cognition in older adults*. Paper presented at the Annual Meeting of the Association for Advancement of Educational Research, Ponte Vedra, FL, December. [\*\*Presentation with Former Students]**

**Witta, E.L. & Sivo, S.A. (2002). *Measuring cognitive function: An empirical investigation of the psychometric properties of a cognitive measure*. Paper presented at the Annual Meeting of the American Evaluation Association, Washington, D.C., November.**

**Sivo, S.A. & Witta, E.L. (2002). *Measuring depressive symptomatology: An empirical investigation of the psychometric properties of the shortened CES-D*. Paper presented at the Annual Meeting of the American Evaluation Association, Washington, D.C., November.**

**Heyn, P., Whiteside, J., Witta, E. L., & Rohter, F. (2002). *Effects of a wellness based exercise intervention program on Alzheimer's disease*. Free communication slide presentation at the 49th American College of Sports Medicine (ACSM)**

- Annual Meeting, St. Louis, May. [\*\*Presentation with Former Student]
- Witta, E. L. (2002). *Does class length or format affect examination scores in graduate research?* Paper presented at the Annual Conference of the American Educational Research Association, New Orleans, April.
- Heyn, P., Witta, E.L., Whiteside, J., & Rohter, F. (2002). *Effects of an innovative, music\_based, motor learning exercise intervention program on Alzheimer's disease.* Poster presented at the 2002 Joint Conference of the National Council on the Aging and the American Society on Aging (ASA), Denver, April. [\*\*Presentation with Former Student]
- Heyn, P., Rohter, F., Witta, L., & Whiteside, J. (2002). *Fitness care: An innovative exercise to music program for the cognitive impaired older adult.* Paper presented at the 28th Annual Meeting of the Association for Gerontology in Higher Education (AGHE), Pittsburgh, March. [\*\*Presentation with Former Student]

### Regional/State Presentations

- Baumbach, D., Wang, M., & Witta, L. (2002). *First findings: Florida library media survey.* Paper presented at the Annual Meeting of the Florida Media Specialists, Daytona.
- Shore, W., Katt, J., Lee, C., Rasmus, S., Saenz, K., Speranza, L., & Witta, E.L. (2002). *Structural equation modeling analysis of the effects of social and biological factors on geriatric cognition: Does sex matter?* Paper presented at the 23<sup>rd</sup> annual meeting of the Southern Gerontological Society, Orlando, May. [\*\*Presentation with Former Students]
- Heyn, P., Rohter, F., Witta, L., Whiteside, J., & Tucker, R. (2002). *Positive health promotion approaches in dementia.* Abstract presented at the 23rd Annual Meeting of the Southern Gerontological Society, Orlando, May. [\*\*Presentation with Former Student]
- Lee, C. H. & Witta, E.L. (2001). *Online students' perceived self-efficacy: Does it change?* Paper presented at the Annual Meeting of the Association for Educational Communications and Technology (AECT) International Convention, Atlanta, November. [\*\*Presentation with Former Student]
- Witta, E.L. (2001). *Does method of creating the sample influence missing data decisions?* Paper presented at the Annual Meeting of the American Educational Research Association, Seattle, April.
- Witta, E.L. (2001). *Does method of handling missing data affect the results of a*

- structural equation model?* Paper presented at the Annual Meeting of the Southwest Educational Research Association, New Orleans, February.
- Witta, E. L. (2000). *A comparison of missing data treatments in producing factor scores.* Paper presented at the annual meeting of the American Evaluation Association, Waikiki, November.
- Witta, E. L. (2000). *Educational interactive video for high school students: How do teachers perceive the program?* Paper presented at the annual meeting of the American Evaluation Association, Waikiki, November.
- Witta, E.L. (2000). *Effectiveness of four methods of handling missing data using variables from a national database.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, April.
- Witta, E.L. (2000). *Four methods of handling missing data in predicting educational achievement.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, April.
- Witta, E.L. (1999). *High school student - High school parent: Are there differences in perceived strengths and weaknesses of an educational interactive video program?* Paper presented at annual meeting of the American Evaluation Association, Orlando, November.
- Witta, E.L. (1999). *High school student - High school parent: Are there differences in evaluation of an educational interactive video program?* Paper presented at the annual meeting of the American Evaluation Association, Orlando, November.
- Witta, E.L. & Witta, G.T. (1999). *High school student perceptions of the strengths and weaknesses of an educational interactive video program over a four-year time span: Log-linear analysis.* Paper presented at the annual meeting of the American Educational Research Association, Montreal, April.
- Witta, E.L. & Witta, G.T. (1998). *Are perceived strengths and weaknesses of an interactive video program changing over time: A loglinear model.* Paper presented at the annual meeting of the Southwest Educational Research Association, Houston, January.
- Gupton, S.L. & Witta, E.L. (1998). *Leadership Behavior Descriptive Questionnaire: An analysis of the instrument's usefulness in assessing transformational style leadership.* Paper presented at the annual meeting of the Southwest Educational Research Association, Houston, January.
- Witta, E.L. & Daniel, L.G. (1998). *Validity and reliability: Are methods of assessment and usage changing in social science research?* Paper presented at the annual

- meeting of the Southwest Educational Research Association, Houston, January.
- Witta, E.L. (1997). *Chi-square or loglinear modeling: Is there a difference?* Paper presented at the annual meeting of the Southwest Educational Research Association, Austin, TX, February.
- Witta, E.L. & Gupton, S.L. (1999). *Crossvalidation and confirmatory factor analysis of the 30-item Leadership Behavior Description Questionnaire: Implications for use by graduate students.* Paper presented at the annual meeting of the American Educational Research Association, Montreal, April.
- Witta, E.L. & Witta, G.T. (1998). *Do perceived strengths and weaknesses of an interactive video program change over time or by location? A log-linear model.* Paper presented at the annual meeting of the American Evaluation Association, Chicago, November
- Witta, E.L. & Mathews, B. (1998). *Comparison of 1995 through 1997 high school student evaluation of an educational interactive video program.* Paper presented at the annual meeting of the American Evaluation Association, Chicago, November.
- Witta, E.L. & Daniel, L.G. (1998). *The reliability and validity of test scores: Are editorial policy changes reflected in journal articles?* Paper presented at the annual meeting of the American Educational Research Association, San Diego, April.
- Witta, E.L. & Witta, G.T. (1997). *Revision of an evaluation instrument: Will the measuring device provide more reliable or valid scores?* Paper presented at the annual meeting of the American Evaluation Association, San Diego, November.
- Witta, E.L. & Mathews, B. (1997). *Comparison of 1995-96 high school students attitude survey results.* Paper presented at the annual meeting of the American Evaluation Association, Chicago.
- Gustafson, R., Yssel, J. & Witta, E.L. (1997). *Advertising practitioners' attitudes toward their trade.* Paper presented at the annual meeting of the American Academy of Advertising, St. Louis, April.
- Daniel, L.G. & Witta, E.L. (1997). *Implications for teaching graduate students correct terminology for discussing validity and reliability based on a content analysis of three social science measurement journals.* Paper presented at the annual meeting of the American Educational Research Association, Chicago, March.
- Witta, E.L. (1996). *The randomness of missing values in survey research.* Paper

- presented at the annual meeting of the Mid-South Educational Research Association, Tuscaloosa, November.
- Witta, E.L. (1996). *Results of an interactive video attitude survey when using the total group with unequal group sizes versus five random samples with equal group sizes*. Paper presented at the annual meeting of the South-West Educational Research Association, New Orleans, January.
- Franklin, K.K., Shemwell, D.W., & Witta, E.L. (1995, March). *Hierarchical confirmatory factor analysis of a student satisfaction survey*. Paper presented at the annual meeting of the Eastern Education Research Association. Hilton Head, SC.
- Witta, E.L. (1995). *Prediction of minimum competency using three methods*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Biloxi, MS, November.
- Witta, E.L. & Keith, T.Z. (1994). *Multi-sample, hierarchical confirmatory factor analysis of the WISC-R: An old problem revisited*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Nashville, November.
- Witta, E.L. (1994). *Are values missing randomly in survey research?* Paper presented at the annual meeting of the Mid-South Educational Research Association, Nashville, November.
- Keith, T.Z. & Witta, E.L. (1993). *Hierarchical confirmatory factor structure of the WISC-III: Testing the new test*. Paper presented at the annual meeting of the National Association of School Psychologists.
- Witta, E.L. (1993). *Methods of handling missing data using samples from a national data base*. Paper presented at the annual meeting of the Eastern Educational Research Association, Clearwater, FL, February.
- Keith, T.Z. & Witta, E.L. (1993). *Testing the new intelligence test: Hierarchical and cross-age confirmatory factor analysis of the WISC-III*. Paper presented at the annual meeting of the Eastern Educational Research Association, Clearwater, FL, February. [Received Distinguished Paper of the Year Award]
- Witta, E.L. & Kaiser, J. (1991). *Four methods of handling missing data with the 1984 General Social Survey*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Lexington, KY, November.

## Service

### *Editorial Board/Manuscript Reviewer*

Member, Editorial Review Board, Educational and Psychological Measurement, 2000-2007.

Reviewer, Research Design text for McGraw-Hill publishing, January 2007.

Reviewer, Basic Statistics text (preliminary manuscript) for Mayfield publishing, May 2000.

Ad hoc Reviewer, Educational and Psychological Measurement , 1996-2000

Ad hoc Reviewer, Educational Research Quarterly, 1994

### *Professional Organizations*

#### **American Educational Research Association**

**Co-Program Chair: Adulthood and Aging SIG (2004-5)**

**Program Chair: Adulthood and Aging SIG (2005-7)**

**Co-Newsletter Editor: Educational Statisticians SIG (2004-present)**

**Annual Meeting Program Reviewer for Division D, Measurement and Evaluation, 1998-present**

**Annual Meeting Program Reviewer for Professors of Educational Research SIG, 1997 - present**

**Annual Meeting Program Reviewer for Advanced Studies of National Databases SIG. 1999 - 2001**

**Chair of Paper Presentation Panel for Advanced Studies of National Databases, 1999**

#### **South-West Educational Research Association**

**Co-Chair: Measurement, Methodology, & Research Division, 1997-2001**

**Executive Council Member, (elected) 1998-2000**

**Annual Meeting Program Reviewer, 1997-2002**

**Outstanding Paper Competition Judge, 2000**

**Chair Paper Presentation, 1996, 1997**

**Discussant, Symposium Paper Presentation, 1999, 2000**

#### **American Evaluation Association**

**Co-Chair: Theory Driven Evaluation topical interest group (2003-2006)**

**Co-Program chair: Theory Driven Evaluation TIG (2003-2006)**

## **Phi Kappa Phi Honorary**

### **Professional Development Training Sessions Presented at Conferences**

- Witta, E.L. (2004). Bootstrapping, Permutation, and Probability: Workshop for Beginners. Workshop to be presented at the annual meeting of the American Evaluation Association, Atlanta, November.**
- Heyn, P., Rohter, F., Witta, E.L., & Whiteside, J. (2002). Innovative activity programs for individuals with cognitive dysfunction and Alzheimer's disease. Workshop presented at the 2002 American Association for Health, Physical Education, Recreation, and Dance National Convention and Exposition (AAHPERD), San Diego, April.**
- Witta, E. L. (2000). Missing Data Analysis for Beginners. Professional development workshop presented at the annual meeting of the American Evaluation Association, Waikiki, November.**
- Witta, E.L. & Daniel, L.G. (2000). Missing data analysis: A workshop for beginners. Professional development workshop presented at the annual meeting of the Southwest Educational Research Association, Dallas, January.**
- Witta, E.L. & Daniel, L.G. (1996). Confirmatory factor analysis: A workshop for beginners. Professional development workshop conducted for the annual meeting of the Mid-South Educational Research Association, Tuscaloosa, November 1996.**
- Witta, E.L. & Mathews, B., (1996). Investigating educational interactive video: A case study. Presented at the annual meeting of the International Teleconferencing Association, Washington D.C., May. Presentation was video-taped by the conference for sale to and use by other facilities.**
- Consisted of three sections:**
- High school and college participants' attitude toward an interactive video program: A descriptive analysis**
  - Strengths, weaknesses, and suggested improvements of an educational interactive video program**
  - Does an educational interactive video program differ by site, grade status, or years of existence?**
- Witta, E.L. & Daniel, L.G. (1996). A non-technical primer on confirmatory factor analysis for rank beginners. Professional development training session presented at the annual meeting of the Southwest Educational Research Association, New Orleans, January.**



## **Institutional Committee Participation**

### **University Committees**

**Member, Faculty Senate (2004-2006), ERTL, UCF**

**Member, Faculty Senate (2002-2004), ERTL, UCF**

**Member, Graduate Council, ERTL, UCF  
(Course Adoption Sub-committee, 2004-2006)**

**Member, Graduate Council, ERTL, UCF  
(Course Adoption Sub-committee, 2002-2004)**

**Member, Research Council (2002-2005), ERTL, UCF  
(Presidential Major Equipment Grants Sub-committee, 2002-3)  
(In-house Research Grants Sub-committee, 2002-2004)  
(Chair In-House Research Grants Sub-committee, 2004-5)**

**Member, Human Subjects Protection Review Committee (1997-1999),  
Representative for College of Education, University of Southern Mississippi**

**Member, Program I Committee, National Council for Accreditation of Teacher  
Education (NCATE) Institutional Report Self-Study Committee (1997-1998),  
University of Southern Mississippi**

### **College of Education Committees**

**Chair, Tenure & Promotion Committee (2002-2003), ERTL, UCF**

**Member, Tenure & Promotion Committee (2001-2002), ERTL, UCF**

**Member/Chair, Advanced Graduate Admission and Retention Committee (2000-  
2002). ERTL, UCF**

**Member, Research Committee (2000-2001), Educational Foundations, UCF**

**Member, Research Associate Search Committee (2000), UCF**

**Member, Curriculum & Instruction Executive Board (1999-2003), UCF**

**Evaluator, Ed.D. Research Comprehensive Exams (1999-present), UCF**

**Revision, Ed.D. Research Comprehensive Exams (multiple times), UCF**

**Interviewer, Admission to Ed.D. Curriculum & Instruction Program (1999)**

### **Departmental Committees**

**Coordinator of Research Curriculum (2001-present), ERTL, UCF**

**Chair, Educational Research Faculty Search Committee (2003), ERTL, UCF**

**Chair, Educational Research Faculty Search Committee (2002), ERTL, UCF**

**Chair, Educational Research Faculty Search Committee (2001), ERTL, UCF**

**Chair, Educational Research Faculty Search Committee (2000), Educational Foundations, UCF**

**Member, Research subcommittee - Educational Foundations (1999-2001), UCF**

**Co-Chair, Educational Research Faculty Search Committee (1999), Department of Educational Leadership and Research, University of Southern Mississippi**

### **Other Service Activities**

**Evaluator, iTEC, NSF funded technology program for Daytona and Seminole Community Colleges, 2003-6.**

**Presented evaluation results (2003-4) to NSF visiting committee May 2004**

**Presented evaluation results (2004-5) to NSF visiting committee May 2005**

**Presentation for AP Statistics Class at Lake Howell HS - November, 1999.**

**“What our research tells us,” Presentation to the Interactive Video/Distance Learning Workshop for the Southwest Virginia Education and Training Network, Richlands, Va., July, 1995.**

**Evaluator, Southwest Virginia Education and Training Network, Abingdon, Va, 1995 to 1999 (Bruce Mathews, director).**

**Video-taped results from 1995 evaluation including question-answer session with SVETN director, Bruce Mathews, for use by that facility.**

**Member of planning committee for assessment of technology and technology training in Mississippi, Office of Technology, Mississippi Department of Education,**

Helen Soule, director (1998-99).

Research/analytic consultant with the Hattiesburg Education Network, Sue van Slyke director (1998-99).

## Teaching

### Awards

2003-2004 Received the Teaching Incentive Program Award

### Classes Taught

#### Masters Research Methods

EDF 6481	Graduate Research Methods (1999-Pres UCF)	3 sem. hrs.
REF 601	Basic Research (1995-99 USM)	3 sem. hrs.
ELPA 5950	Methods of Research (1992-94 ETSU)	3 sem. hrs.
ELPA 5951	Seminar in Research (1992-94 ETSU)	3 sem. hrs.

#### Masters Basic Statistics

EDF 6401	Statistics for Educational Data (2005 – UCF)	3 sem. Hrs.
REF 602	Intro. to Educational Statistics (1995-99 USM)	3 sem. hrs.
ELPA 5810	Educational Statistics (1994 ETSU)	3 sem. hrs

#### Doctoral Statistics/Research

EDF 7403	Quantitative Methods (1999-Pres UCF)	3 sem. hrs.
EDF 7405	Quantitative Methods II (2005 UCF)	3 sem. hrs.
EDF 7406	Multivariate Statistics (2004 UCF –EDF7939)	3 hrs.
EDF 7463	Survey Research (2000-Pres UCF)	3 sem. hrs.
EDF 6385	Sp tp: Struct Eq Mod (2001 - UCF)	3 sem. hrs.
ELPA 7810	Educational Statistics (1994 ETSU)	3 sem. hrs
REF 761	Experimental Design (1995-99 USM)	3 sem. hrs.
REF 762	Adv Multiple Regression (1996-99 USM)	3 sem. hrs.
REF 830	Multivariate Statistics (1997-99 USM)	3 sem. hrs.
ELPA 6951	Seminar in Research (1992-94 ETSU)	3 sem. hrs.

#### Doctoral Research (Dissertation Preparation)

REF 893	Seminar in Educational Rsch (1998-99 USM)	3 sem. hrs.
ELPA 6950	Advanced Graduate Research (1994 ETSU)	3 sem. hrs

### Other Collegiate Academic Assignments

Have developed 2 courses in support of the research requirements of the PhD programs. Courses include:

**Multivariate Statistics for Education (EDF7406) 3 semester hours**  
Use of multivariate statistical procedures to answer education questions. Previously taught this class at USM.

**Quantitative Methods II (EDF7405) 3 semester hours**  
Use of multiple regression, path analysis, and structural equation modeling to answer research questions. This course has been taught previously as a special topics class.

Completing coordination of the research group in development of a proposal to add an **Educational Research track to the PhD** in Education.

Coordinating the research group in development of a **Master's Program in Educational Evaluation**. Participation will include development of new classes to support the program.

Coordinating the research group in development of a **Certificate Program in Evaluation**. Participation will include development of new classes to support the program.

Participated in Collaborative Classroom workshop (FCTL), Fall 2002. Integrated collaborative procedures and use of classroom technology (SPSS computer software) into EDF7403.

Participated in WEB based class design workshop Fall 2000. Developed a WEB basic research class (EDF 6481) Spring 2001. Offered full WEB EDF 6481 Summer 2001.

Developed a master's level course in Assessment of Learning (EDF6446) 1999-2000.

### **Dissertations Chaired/co-chaired** - 7 Completed at UCF

Kemp, Andrew Thomas (2007) Characteristics of academic writing in education. (Ed.D. dissertation, University of Central Florida, Chair: E. Lea Witta, 147p), from ProQuest Digital Dissertations database. (Publication No. AAT 3256928).

Miller, Joseph A. (2007) Direct and indirect effects of selected factors on school grades in public high schools in the state of Florida. (Ed.D. dissertation, University of Central Florida, Chair: Larry Holt & E. Lea Witta, 158p), from ProQuest Digital Dissertations database. (Publication No. AAT

- 3256933).
- Gaythwaite, Edie S. (2006) Metacognitive self-regulation, self-efficacy for learning and performance, and critical thinking as predictors of academic success and course retention among community college students enrolled in online, telecourse, and traditional public speaking courses. (Ed.D. dissertation, University of Central Florida, Chair: E. Lea Witta, 123p) From ProQuest Digital Dissertations database. (Publication No. AAT 3210356).**
- Etgeton, Cassandra Zehntner (2004) Does the mathematics anxiety level of K--3 elementary teachers relate to the mathematics achievement of their students? (Ed.D. dissertation, University of Central Florida, Chair: E. Lea Witta, 97p) From ProQuest Digital Dissertations database. (Publication No. AAT 3144884).**
- Karman, Richard Eric (2003) Generalizability of letter grades assigned by college Composition I instructors to evaluate student writing. (Ed.D. dissertation, University of Central Florida, Chair: E. Lea Witta & Jeffrey Kaplan, 158p) From ProQuest Digital Dissertations database. (Publication No. AAT 3094804).**
- Brubaker, Craig Robert (2002) Long-term outcomes of a multidisciplinary hospital-based wellness program designed for patients with congestive heart failure; increasing their quality of life while reducing hospitalization. (Ph.D. dissertation, University of Central Florida, Chair: E. Lea Witta, 141p) From ProQuest Digital Dissertations database. (Publication No. AAT 3069435).**
- Chanter, Carol Lynn (2002) The relationship of the accountability practices of elementary principals to student achievement. (Ed.D. dissertation, University of Central Florida, Chair: Mary Ann Lynn & E. Lea Witta, 129p) From ProQuest Digital Dissertations database. (Publication No. AAT 3054588).**
- Goff, Loretta Stevenson (1999) Teacher and administrator perceptions concerning the use of teacher portfolios for professional development and evaluation. (Ph.D. dissertation, The University of Southern Mississippi, Chair: E. Lea Witta, 122p) From ProQuest Digital Dissertations database. (Publication No. AAT 9935691).**
- Bullard, Mack Henry (1998) University professor's attitudes toward educational technology: An analysis of selected variables. (Ph.D. dissertation, The University of Southern Mississippi, Chair: E. Lea Witta, 98p) From ProQuest Digital Dissertations database. (Publication No. AAT 9916019).**

**Have served on more than 70 dissertation committees since 2001.**