



## DEPARTMENT OF EDUCATION AND SPECIAL EDUCATION

### **QRM1808, Analysis of longitudinal data in educational research, 7.5 credits**

Analys av longitudinella data i utbildningsvetenskaplig forskning, 7,5 högskolepoäng

*Third-cycle level / Forskarnivå*

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#### **Reading and reference list for QRM1808**

This reading and reference list was confirmed by Department of Education and Special Education 2026-03-10, and is valid from Spring semester 2026.

The reading and reference list is available on the next page.



## Literature list

Newsom, Jason T. (2023, 2nd ed.) Longitudinal Structural Equation Modeling. A Comprehensive Introduction. Routledge. (chapters 1 to 4, 7 and 14, ca 120 pages out of 522 Pages)

Heck, Ronald. H., Thomas, Scott. L, & Tabata, Lynn. N. (2014). *Multilevel and longitudinal modeling with IBM SPSS*. New York: Routledge. (Chapters 1, 2, 3, 5 and 6; 100 pages)

Geiser, C. (2021, Ch. 1). A Measurement Theoretical Framework for Longitudinal Data Introduction to Latent State–Trait Theory (15 pages). In (C. Geiser) *Longitudinal structural equation modeling with Mplus: A latent state–trait perspective*. The Guilford Press.

## Software:

**IBM SPSS** - Statistical package for the social sciences, version 20 or later. Most universities and colleges in Sweden offer SPSS to employees and students, either as a site-license or limited volume license.

**Recommended: Mplus** by Muthén, L. K., & Muthén, B. O. (1998-2018). *Mplus: Statistical analysis with latent variables: User's guide*. Los Angeles: Muthén & Muthén.

License and software: <https://www.statmodel.com/>

**Alternative to Mplus: R Lavaan.**