

UWA PLUS

# Introduction to Classical and Rasch Measurement Theories (IMEDM401)

This micro-credential teaches some traditional test theory because it is still relevant and because of the history of the development in formal testing. Studying both theories enables students to better appreciate each theory and, in particular, how Rasch measurement incorporates, elaborates and better achieves the goals of traditional test theory.

**Delivery mode**

Online

**Start date**

28 February 2022 and 25 July 2022

**Duration**

approx. 12 weeks

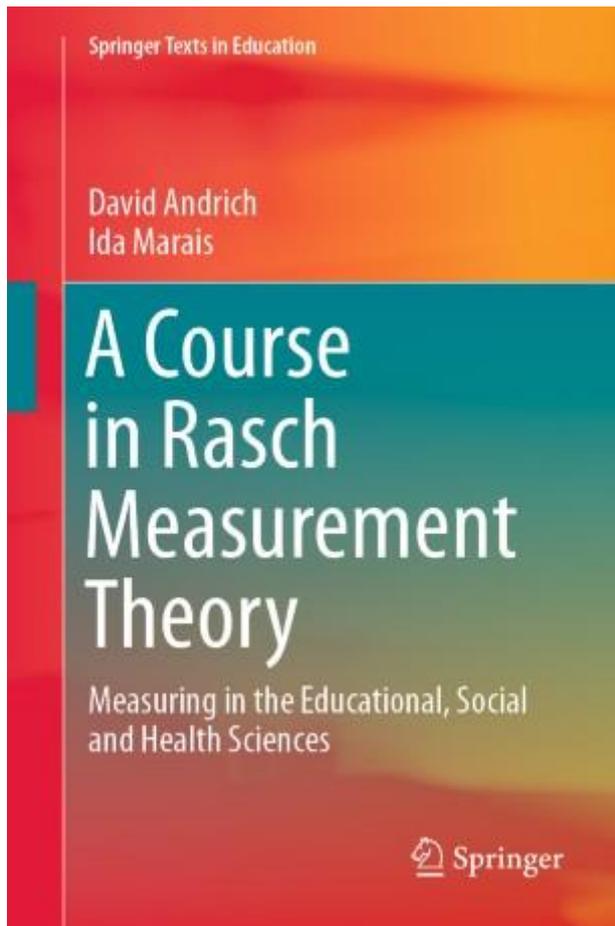
**Effort**

150 hours

**Cost**

\$2,650 inc. GST

**Critical information summary**



## What you'll learn

Gain an understanding of the basic principles of Rasch measurement theory in the social sciences; demonstrate an understanding of the principles of traditional test theory in terms of Rasch measurement theory; assess the quality of items used in constructing assessment instruments of achievement, knowledge and attitude using a range of diagnostic tools; and analyse assessment data using the appropriate software.



## Why study this course?

- Learn the foundational knowledge required for understanding Rasch measurement theories and assessment, measurement and evaluation
- Gain skills for using RUMM2030 for analysis
- Update your statistical skills

## Who should study this course

This unit will be of interest for:

- Professionals in assessment and measurement of performance and attitude who know traditional test theory and are interested in learning the principles of modern test theory and Rasch measurement.
- People in education, psychology, health care and health sciences who are concerned with outcome measurement.
- People familiar with Rasch measurement and modern test theory (item response theory) who want to consolidate their understanding of first principles.
- Students enrolled in higher degree studies and who require knowledge and evidence of studying educational and psychological measurement, especially an introduction to traditional and modern test theory.

## **How does it work?**

Participants will be supervised online and submit assessments.

## **What's next after this course?**

### **Future study**

Eligibility to enrol in IMEDM402 Advanced Course in Rasch Measurement Theory. Credit towards an award course at graduate level (Master's degree) or training as a part of a PhD.

### **Career outcomes**

Research, psychometrics, marketing, government, business, education, psychology, medicine and health sciences.

UWA PLUS

# Advanced Course in Rasch Measurement Theory (IMEDM402)

This micro-credential introduces students to advanced principles of Rasch measurement theory. It is a follow-up to Introduction to Classical and Rasch Measurement Theories. Analyses of real and simulated data sets using new features available in RUMM2030 and one assignment where participants have the option of analysing their own data.

**Delivery mode**

Online

**Start date**

28 February 2022 and 25 July 2022

**Duration**

approx. 12 weeks

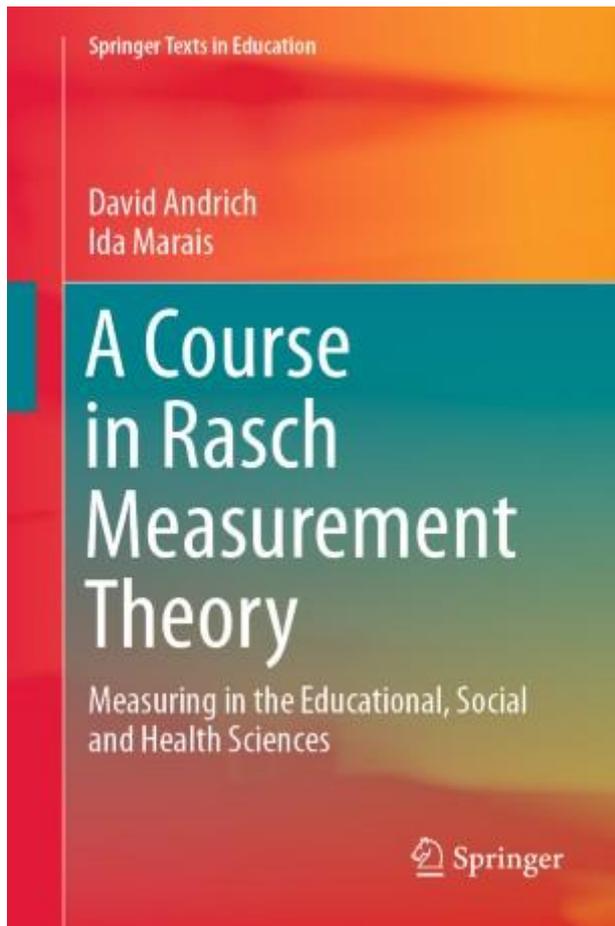
**Effort**

150 hours

**Cost**

\$2,650 inc. GST

**Critical information summary**



## What you'll learn

Gain an understanding of different approaches to measurement including the traditional and modern approaches, explain advanced principles of Rasch measurement theory, assess the quality of items used in constructing assessment instruments of achievement, knowledge and attitude using a range of diagnostic tools, write up a Rasch analysis for publication; and apply specialised software in analysing assessment and attitude data.



## Why study this course?

- Become an expert on Rasch measurement theories and assessment, measurement and evaluation
- Consolidate your skills using RUMM2030
- Write reports and publications using Rasch analysis

## Who should study this course

This unit will be of interest for:

- Professionals in assessment and measurement of performance and attitude who know traditional test theory and are interested in learning the principles of modern test theory and Rasch measurement.
- People in education, psychology, health care and health sciences who are concerned with outcome measurement.

- People familiar with Rasch measurement and modern test theory (item response theory) who want to consolidate their understanding of first principles.
- Students enrolled in higher degree studies and who require knowledge and evidence of studying educational and psychological measurement, especially an introduction to traditional and modern test theory.

## **How does it work?**

Participants will be supervised online and submit assessments.

## **What's next after this course?**

### **Future study**

Credit towards an award course at graduate level (Master's degree) or training as a part of a PhD.

### **Career outcomes**

Research, psychometrics, marketing, government, business, education, psychology, medicine and health sciences.