Masters level course

Understanding Rasch Measurement Theory

Unlock insights to advance your career

Make your next move

Advance your career with a deeper understanding of modern measurement theory. **With 100% online part-time study**, you can complete this exciting course at the master's level in just 10 weeks while you advance your career.

Led by world-renowned researcher and psychometrician **Professor Geoff Masters**, the Understanding Rasch Measurement Theory course will develop the knowledge you need to get the most from the Rasch Model – a measurement approach used to underpin student testing globally.

Get the advantage

- 100% online
- Dedicated support
- World-renowned experts
- Stepping stone to Masters Degree
- Community of leaders

Apply now acer.org/rasch

More information, contact our student administration team:

courses@acer.org
+61 3 9277 5202

Course Overview

Understanding Rasch Measurement Theory provides a theoretical background with a strong emphasis on building skills in objective measurement.

You'll learn about objectivity in measurement, how to evaluate the consistency of data and building measurement scales to measure proficiencies of individuals, the nuts and bolts that underpin educational assessment.

Make Your Move! Use this course as the perfect stepping stone to your master's degree, or as an independent course to build expert skills for a new or advanced career.

Apply now acer.org/rasch

Course Aims

Whether you're a research student wanting to delve deeper into measurement theory, an educational professional seeking a practical understanding of tools behind Progressive Achievement Tests (PAT), NAPLAN, PISA and TIMSS, or a data analyst looking to build on your statistical analysis skills, this course will help you achieve your goals.

In this course, you will:

- Build your skills in using Rasch measurement to develop valid and reliable measuring instruments.
- Deepen your understanding of the role of objectivity in measurement.
- Develop your knowledge of the unique features of Rasch analysis and their implications for calibrating assessment tasks and measuring individuals.
- Learn methods for evaluating the consistency of data.
- Discover how to use the Rasch model to monitor group trends and measure individual growth over time.
- Learn how to use the Rasch model for activities such as item evaluation, construct validation, item banking and test equating.
- Get ready to apply what you learn to a range of industries including education, health and psychology.

Course Outcomes

As a result of this course you will be able to:

- Explain the principles of Rasch measurement theory.
- Explain the principles of item banking and computer adaptive testing.
- Implement common-person and common-item test equating from first principles.
- Apply basic estimation and fit processes for the dichotomous Rasch model using first principles.
- Explain the role of Rasch measurement in the construction of a learning progression.

Course Structure

Enjoy all the advantages of learning while progressing your career:

- Understanding Rasch Measurement Theory is a single masters-level course (12.5 credit points).
- 10 weeks study on a part-time basis.
- 100% online delivery gives you the flexibility to study at your own pace.
- Assessments are completed online.

Put your new skills to work from day one. Enrol today!

Why this course

Future-proof your career

Advance your future potential with the skills employers are looking for, backed by ACER's globally recognised reputation. With a practical understanding of the methods that underpin Progressive Achievement Tests (PAT), NAPLAN, PISA and TIMSS, this course will help you stand out in the education sector. Plus, it is also the perfect stepping stone to a master's degree.

Unlock the power of measurement

Gain the skills needed to create valid and reliable measuring instruments, such as educational and psychological tests, examinations, and questionnaires. With a practical understanding of Rasch, you will be able to evaluate the consistency of data and objectivity in measurement, monitor group trends and measure individual growth over time.

Immediate practical application

Put your learnings into practice every single day of your course. Use measurement instruments to make objective comparisons. Analyse data sets using the dichotomous Rasch model. Map and interpret learning progressions. With the *Understanding Rasch Measurement Theory* course, you can achieve immediate results.

Enrolment made easy

Who is the course for?

This course is designed for those with a desire to delve deeper into measurement theory. It is ideal for both education professionals looking to improve their understanding and application of measurement theory, and early career researchers looking to enter the field.

If you see yourself as an educational professional, test developer, educational research and evaluation project manager, researcher, data analyst or quantitative research methodologist, then this course is for you.

Our entry requirements are simple:

- Appropriate 4-year degree, or equivalent
- Experience or interest in quantitative methods would be of benefit to students.

Not sure if you qualify?
Contact our student administration team:
courses@acer.org
+61 3 9277 5202

Apply now acer.org/rasch

Why study with ACER

100% online

Work online at your own pace. Our part-time, online course gives you the flexibility to study to your own schedule, on any device, anywhere in the world. Our sophisticated online learning environment is designed to provide a seamless study experience. Watch lectures at a time that works for you. Access articles and resources on demand. And connect with tutors, academic staff and peers in real time.

Dedicated support

Get personalised support from our team. We support you throughout your education, so you stay engaged and on track to complete your qualification, no matter your life and work commitments.

World-renowned experts

Make your next career move, with the confidence you are backed by the world's best. Understanding Rasch Measurement Theory is led by internationally renowned researcher and psychometrician, Professor Geoff Masters AO. Professor Masters worked with Benjamin D Wright at the University of Chicago on the theory and practice of Rasch measurement and developed the Rasch Partial Credit Model.

ACER is an institution that has made major contributions to the way Rasch measurement methods have been used in international and national assessment programs such as Progressive Achievement Tests (PAT), NAPLAN, PISA and TIMSS.

Outstanding community

Become part of a vibrant community of critical and creative thinkers. Draw inspiration and knowledge from your fellow students across a diverse range of industries, including education, science, psychology and more. You will each bring real-world challenges from your field into the online classroom to examine and practice together.

> *With increasing use in schools and education systems of student progress and achievement data it is vitally important that more people have an understanding of the theories and techniques that are used in assessment programs such as NAPLAN and NAP Sample assessments. This course provides an opportunity for education professionals, test developers, researchers and analysts to improve such understanding.*

Robert Randall
Chief Executive Officer, Australian Curriculum, Assessment and Reporting Authority (ACARA)

Apply now acer.org/rasch

More information, contact our student administration team:

courses@acer.org
+61 3 9277 5202

Australian Council *for* Educational Research

ACER