Explore the emerging fields of educational neuroscience and the science of learning and examine how the brain can, and cannot, be successfully translated into classroom practice to improve student outcomes.

This course will give you a broad understanding of the scientific method behind the design, delivery and evaluation of learning interventions, along with the brain and behavioural mechanisms which underpin learning.

You will learn how to evaluate the validity of educational, psychological and neuroscientific research, enabling you to critically reflect on your own teaching philosophies and practices, and make informed choices about new educational methods and products you would like to adopt.

This cutting edge course is built around the work of national and international leaders in the fields of neuroscience, psychology, educational science, and philosophy.
Outcomes
On completion of this course you will be able to:

• understand essential concepts in neuroscience, including brain structure and function, neural correlates of learning, and cognitive development

• understand the basics of neuroimaging and what pictures of the brain actually reveal

• have in-depth knowledge of the latest research concerning the neuroscientific, psychological, and educational underpinnings of learning and apply these to your classroom or school

• design, deliver, and evaluate learning interventions

• share emerging knowledge with your learning community in order to impact constructive change in your school environment

• reflect on emerging research and consider how certain ideas may – or may not – be beneficial for classroom practice.

Pathways
After completing this program, you may be eligible for 25 points of credit towards a relevant graduate certificate or masters qualification.