



**BRAINways**  
EDUCATION  
excellence through education



THE UNIVERSITY OF  
**WESTERN**  
**AUSTRALIA**

BRAINways EDUCATION, in conjunction with University of Western Australia invites gifted and talented students of Perth to participate in:

## **ACADEMICUS: Another Brick in the Wall: The Mathematics of Conformity**

This workshop is an introduction to the topic. An in-depth exploration is possible via e-Learning.

Why do political parties generally have such similar policies? Why are there more Smiths than Millers? Why is a MacDonald's in every major shopping area? And most pressingly, why do hipsters all look the same? This workshop will attempt to answer these questions while exploring the maths behind conformity and clustering.

A program for students year levels 7-10.

Program developed and presented by BRAINways EDUCATION.

Program Dates: Tuesday, April 14<sup>th</sup>

Program Times: 9.30am – 12.00pm (please arrive 15 minutes early for registration)

Place: University of Western Australia - Crawley Campus

Cost: \$47 per student

For enrolment and payment, please access the registration website at <https://registration.brainways.com.au/perth-academicus/>

Please ensure you bring with you, at the programs, the Nomination Letter you received from your school, as it will be required for registration. Please note that schools are not able to reserve their students' places in the program, and places will fill on the first come, first served basis

What to bring: Drink (water only please), morning tea (and lunch, if also attending an afternoon program program), notebook and pencil, smile



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# **ACADEMICUS:**

## **The Chemistry in a Prescription: The Analgesics**

This workshop is an introduction to the topic. An in-depth exploration is possible via e-Learning

Some people take Panadol or Nurofen to treat everyday aches and pains, but how exactly do the different classes of pain relievers work? Learn about the basic physiology of how humans experience pain, and the mechanics of the medicines we've invented to block or circumvent that discomfort, whether they're over the counter or heavy-duty prescription bad boys. Explore the biological and psychological factors that influence our experience of pain and how our nervous system reacts to harmful stimuli.

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## **Rewiring the Brain?**

### **The Psychology of Technology**

This workshop is an introduction to the topic. An in-depth exploration is possible via e-Learning.

Rapid developments in technology are introducing unanticipated dangers along with new opportunities for humanity. To understand and enhance the human-technology relationship, this program will explore the factors that shape people's attitudes about new technologies (e.g., social media, smartphones, robots, self-driving cars, artificial intelligence), and how the use of these technologies transform how people live, work, play, and interact, and the impact on their psychological well-being.

**A program for students year levels 7-10**

**Program developed and presented by BRAINways EDUCATION.**

**Program Dates:** Wednesday, April 15<sup>th</sup>

**Program Times:** 9.30am - 12.00pm (please arrive 15 minutes early for registration)

**Place:** University of Western Australia - Crawley Campus

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## **What Makes Us Human?**

### **Capturing the Essence of Humanity in Science Fiction**

This workshop is an introduction to the topic. An in-depth exploration is possible via e-Learning.

From Frankenstein to Bladerunner, science fiction has long been used to explore alternative possibilities and futures for ourselves, our societies and our planet. This program is an exploration of various key philosophical issues through various works of science fiction. Using thought experiments, imaginings and models in philosophy and other disciplines such as biology, economics and physics, this program aims to reveal what can thinking about alternative possibilities tell us about our world, and why.

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