



Brainstorm:
BIG IDEAS IN NEUROSCIENCE

Course Overview

 JOHN MONASH
SCIENCE SCHOOL

FOR MORE INFORMATION AND TO REGISTER PLEASE VISIT
WWW.EMSCI.VIC.EDU.AU



Brainstorm: BIG IDEAS IN NEUROSCIENCE



Brainstorm will tackle what we already know about the brain and how cutting edge technologies are changing this, using a mix of videos, discussion, practical activities (including a virtual brain dissection), guest speakers, group and individual work.

Join us in exploring some of the big ideas in neuroscience and unleash your brainstorm:

- How do we image the brain and can we see thoughts?
- How do sleep and chemicals affect the brain?
- Bionic brains – how can we replicate senses and understand illusions?



Learning

Focus 1: Introduction to the Nervous System

- Structure of the Nervous System and Neural Pathways
- Neurons and Glial Cells
- Brain Anatomy

Focus 2: What is Thinking?

- Brain Imaging Techniques
- How neurons communicate
- How drugs work

Focus 3: Illusions and Sensation

- How we detect information
- Why illusions 'trick' us
- Advancements in Neurotechnology



Homework

Students will be required to complete on average 1 hour of homework per week.



Assessment

For successful completion of this unit students will be required to submit three assessment tasks.

- Mini Quizzes
- Create an Neurotech Advert
- Case Study Research Task

Students will also be assessed on regular attendance.



JOHN MONASH
SCIENCE SCHOOL



MONASH University

WWW.EMSCI.VIC.EDU.AU