



Australia's
Global
University

Faculty of Medicine and Health
School of Medical Sciences

NEUR4411

Behavioural Perspectives in Neuroscience

TI 2021

COURSE OUTLINE

NEUR4411- Course Outline - 2021

1. Information about the Course

NB: Some of this information is available at <https://www.handbook.unsw.edu.au/undergraduate/courses/2021/NEUR4411/>

Year of Delivery	2021			
Course Code	NEUR4411			
Course Name	<i>Behavioural Perspectives in Neuroscience</i>			
Academic Unit	Neuroscience			
Level of Course	Honours			
Units of Credit	6UOC			
Session(s) Offered	T1			
Hours per Week	2			
Number of Weeks	10 weeks			
Commencement Date	Week 1: Tuesday, 16 th February, 2021			
Summary of Course Structure (for details see 'Course Schedule')				
Component	HPW	Time	Day	Location
Seminars	2	10 am - 12 pm	Tuesday	MAT 310
Special Details	Important announcements and any changes to this document will be posted on the Moodle course website. This document will be available on the site.			

2. Staff Involved in the Course

Convenor/Lecturer Dr Kelly Clemens MAT 909 k.clemens@unsw.edu.au
 Co-convenor/Lecturer Dr Belinda Liddell MAT 1100 b.liddell@unsw.edu.au

Guest Lecturers

A/Prof Denovan Begg MAT 708 d.begg@unsw.edu.au
 Dr Justine Fam MAT 706 j.fam@unsw.edu.au
 Dr Karly Turner MAT 404 karly.turner@unsw.edu.au
 Dr Colin Palmer MAT 1015 colin.palmer@unsw.edu.au
 Prof Tom Whitford MAT 913 t.whitford@unsw.edu.au

3. Course Details

Course Description & Aims	<p>The course is an introduction to behavioural neuroscience, focusing on traditional approaches, the integration of technological advances into behavioural neuroscience and translational outcomes.</p> <p>The aims of the course are to provide you with:</p> <ul style="list-style-type: none"> • Understanding of how basic research in behavioural neuroscience is used to advance treatments in neurological and mental health disorders • Knowledge of behavioural neuroscience and how it relates to human disorders, in particular mental health • New approaches and techniques used in behavioural neuroscience, including potential limitations or pitfalls
Student Learning Outcomes	<p>The learning outcomes of this course (that will be assessed through oral and written assessments and exams) are as follows:</p> <ol style="list-style-type: none"> 1. You will demonstrate knowledge and general empirical understanding of the techniques and approaches used in the study of behavioural neuroscience in humans and animals. 2. You will demonstrate a broad overview of the area of behavioural neuroscience, including strengths and limitations 3. You will demonstrate the skills of critical thinking, conceptual analysis, and oral and written expression.

5. Course Schedule

Weekly seminars by guest lecturers will follow the following format:

- 50 min - Introduction to topic, focusing on discipline-specific techniques and approaches.
 - o What is the big question we are trying to answer in this field?
 - o How can this question be addressed using behavioural neuroscience?
- 10 min break
- 50 min – In depth discussion of empirical paper showing application of this approach
- 10 minutes for general questions and discussion

Required readings will be posted 1 week prior but are not examinable. Seminars will not be recorded.

Tue. 16-2 Week 1: Introduction to NEUR4411, including information for assessments
Modeling mental health disorders: Addiction
Dr Kelly Clemens

Tue. 23-2 Week 2: Modeling mental health disorders: Impulsivity and compulsivity
Dr Karly Turner

Tue. 2-3 Week 3: Oxytocin – more than just a love hormone?
Dr Justine Fam

Tue. 9-3 Week 4: Group Presentations 1
Dr Kelly Clemens/Dr Belinda Liddell

Tue. 16-3 Week 5: Group Presentations 2
Dr Kelly Clemens/Dr Belinda Liddell

Tue. 23-3 Week 6: Flexibility Week (no classes - essay due 26/3/21)

Tue. 30-3 Week 7: Modelling Reward Dysfunction: Obesity
A/Prof Denovan Begg

Tue. 6-4 Week 8: Determining biomarkers of PTSD: the role of human brain imaging
Dr Belinda Liddell

Tue 13-4 Week 9: Exploring the basis of auditory hallucinations in schizophrenia
Prof Tom Whitford

Tue. 20-4 Week 10: Sensory experience and cortical function in autism
Dr Colin Palmer

Tue. 4-5 Final Exam

6. Assessment Tasks

Assessment

Your mark for the course is derived from:

- | | |
|---|------------|
| 1. Group Presentation (1 x 30%) | 30% |
| - Topics and format will be given in class week one | |
| 2. Essay | 30% |
| - Topic will be given in class week one | |
| - Due Friday 26 th of March (5pm) | |
| - A late penalty of 10%/day will apply | |
| 3. Exam | 40% |
| - Short answer questions | |
| - Tuesday May 4 th , 10 am – 12 pm MAT 310 or online | |

UNSW Academic Honesty and Plagiarism

Academic honesty and plagiarism includes misconduct such as cheating (on exams or by copying other students' assignments) and plagiarism. To avoid plagiarism, you must acknowledge others people's work by referencing it. If you are unsure about what constitutes plagiarism, please talk with the lecturers or tutors. Please read the following explanation carefully, and note the website you can also consult (<http://www.lc.unsw.edu.au/plagiarism/index.html>).

The penalties for academic dishonesty are severe, and can at the very least mean failure in the assignment or exam or the course, and also can mean exclusion from the university for two years. Please read the UNSW academic honesty policy at <http://www.lc.unsw.edu.au/plagiarism/index.html>

Useful links

- Transitioning to Online Learning <https://www.covid19studyonline.unsw.edu.au/>
- Guide to Online Study <https://student.unsw.edu.au/online-study>
- UNSW Student Life Hub <https://student.unsw.edu.au/hub#>
- Equitable Learning Services <https://student.unsw.edu.au/els>
- UNSW policy regarding Special Consideration <https://student.unsw.edu.au/special-consideration>