NEUR4411
Behavioural Neuroscience

T1 2020

COURSE OUTLINE
1. Information about the Course

NB: Some of this information is available on the https://www.handbook.unsw.edu.au/undergraduate/courses/2020/NEUR4411/?q=neur4411&ct=all

<table>
<thead>
<tr>
<th>Component</th>
<th>HPW</th>
<th>Time</th>
<th>Day</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>2</td>
<td>10 am - 12 pm</td>
<td>Tuesday</td>
<td>MAT 227</td>
</tr>
</tbody>
</table>

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 Asheeta Prasad  MAT 507  asheeta.prasad@unsw.edu.au

Guest Lecturer Dr Denovan Begg  MAT 708  d.begg@unsw.edu.au
Guest Lecturer Dr Justine Fam  MAT 706  j.fam@unsw.edu.au
Guest Lecturer Dr Karly Turner  MAT 404  karly.turner@unsw.edu.au
Guest Lecturer Dr Philip Jean-Richard-Dit-Bressel MAT 704  p.jean-richardditbressel@unsw.edu.au

3. Course Details

Course Description & Aims

The course is an introduction to behavioural neuroscience, focusing on traditional approaches, the integration of technological advances into behavioural neuroscience and translational outcomes.

The aims of the course are to provide you with:
- Knowledge of behavioural neuroscience and how it relates to human disorders, in particular mental health and reward dysfunction
- Understanding of how basic research in behavioural neuroscience is used to advance treatments in neurodegenerative disorders
- New approaches and techniques used in behavioural neuroscience, including potential limitations or pitfalls

Student Learning Outcomes

The learning outcomes of this course (that will be assessed through written assessments and exams) are as follows:
1. You will demonstrate knowledge and general empirical understanding of the techniques and approaches used in behavioural neuroscience.
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

*Program – Lecture Material and Required Reading Posted 1 Week Prior*

<table>
<thead>
<tr>
<th>Date</th>
<th>Week</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tue. 18-2</td>
<td>Week 1: Introduction to Behavioural Neuroscience, including information for assessments</td>
<td>Dr Kelly Clemens</td>
<td></td>
</tr>
<tr>
<td>Tue. 25-2</td>
<td>Week 2: Modeling mental health disorders: Impulsivity and compulsivity</td>
<td>Dr Karly Turner</td>
<td></td>
</tr>
<tr>
<td>Tue. 3-3</td>
<td>Week 3: Modeling mental health disorders: Addiction</td>
<td>Dr Kelly Clemens</td>
<td></td>
</tr>
<tr>
<td>Tue. 10-3</td>
<td>Week 4: Modelling Reward Dysfunction: Obesity</td>
<td>Dr Denovan Begg</td>
<td></td>
</tr>
<tr>
<td>Tue. 17-3</td>
<td>Week 5: Group Presentations – Mental Health Insights</td>
<td>Dr Kelly Clemens</td>
<td></td>
</tr>
<tr>
<td>Tue. 24-3</td>
<td>Week 6: Neurodegenerative disorders</td>
<td>Dr Asheeta Prasad</td>
<td></td>
</tr>
<tr>
<td>Tue. 31-3</td>
<td>Week 7: Oxytocin – more than just a love hormone?</td>
<td>Dr Justine Fam</td>
<td></td>
</tr>
<tr>
<td>Tue. 7-4</td>
<td>Week 8: Group Presentations – Translational Perspectives</td>
<td>Dr Asheeta Prasad</td>
<td></td>
</tr>
<tr>
<td>Tue 14-4</td>
<td>Week 9: New techniques in neuroscience – relevance and reliability to behavioural neuroscience</td>
<td>Dr Philip Jean-Richard-Dit-Bressel</td>
<td></td>
</tr>
<tr>
<td>Tue. 21-4</td>
<td>Week 10: Study Week</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
6. Assessment Tasks

Assessment
Your mark for the course is derived from:

1. Weekly Assignment (Group Presentation 2x15%) 30%
   - Topics and format will be given in class

2. Essay 30%
   - Topic will be given in class week one, essay will be due Monday 9th of March (5pm).

3. Exam 40%
   - Tuesday May 5th, 10 am – 12 pm MAT 227

Multiple choice and short answer questions (one of each from each week – lecture and required reading).
The Required Readings will be available via Moodle prior to each class.

UNSW Academic Honesty and Plagiarism

Academic honesty and plagiarism include 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