PSYN841
Neuropsychopharmacology
S1 Day 2016
Department of Psychology

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# General Information

<table>
<thead>
<tr>
<th>Unit convenor and teaching staff</th>
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<tr>
<td>Unit Convenor</td>
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<tr>
<td>Jennifer Cornish</td>
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<tr>
<td><a href="mailto:jennifer.cornish@mq.edu.au">jennifer.cornish@mq.edu.au</a></td>
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<tr>
<td>Contact via <a href="mailto:jennifer.cornish@mq.edu.au">jennifer.cornish@mq.edu.au</a></td>
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Credit points: 4

Prerequisites:
Admission to MClinNeuro or DClinNeuro

Corequisites:

Co-badged status:
The first 6 weeks of this unit is co-badged with PSY961 - Advanced Psychopathology (Clinical Psychologists)

Unit description:
This unit provides an overview of the basic principles of neuropharmacology with particular emphasis on the disorders seen in the clinical practice of neuropsychologists and clinical psychologists. It begins with a review of basic principles and then covers the major neurotransmitter systems and how they are disordered in brain injury and psychological disorders such as depression, schizophrenia and the anxiety disorders.

# Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at [https://students.mq.edu.au/important-dates](https://students.mq.edu.au/important-dates)

# Learning Outcomes

1. Communication and information technology skills: using electronic data bases to search for papers in relevant topics
2. Written and oral communication skills: taking part in class discussions, and presenting papers
3. Self-awareness skills: identifying and setting targets, time management
4. Information skills: formulating arguments, judging the relevance and accuracy of information, comparing different points of view
5. Problem solving: comparing alternative interpretations of neuroscience data, formulating
new explanations

**Assessment Tasks**

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
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<tbody>
<tr>
<td>Test</td>
<td>30%</td>
<td>Week 6</td>
</tr>
<tr>
<td>Essay</td>
<td>45%</td>
<td>Week 13</td>
</tr>
<tr>
<td>Oral Presentation</td>
<td>15%</td>
<td>Week 10, 11 or 12</td>
</tr>
<tr>
<td>Class Participation</td>
<td>10%</td>
<td>Week 8, 9 and 10</td>
</tr>
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**Test**

*Due: Week 6*

Weighting: 30%

**Multiple choice exam (30%)** – 40 MCQ (5-choice) to assess the material covered in week 1-4 inclusive. The exam will be held in class in week 6 of semester 1, April 4, 2016.

This Assessment Task relates to the following Learning Outcomes:
- Self-awareness skills: identifying and setting targets, time management
- Information skills: formulating arguments, judging the relevance and accuracy of information, comparing different points of view
- Problem solving: comparing alternative interpretations of neuroscience data, formulating new explanations

**Essay**

*Due: Week 13*

Weighting: 45%

**Essay (45%)** due to be emailed to Jen by 5pm Monday June 6th, 2016 (week 13). *Topics should be selected by the student following approval from the convener.* The report is to be 1500 words in 12- point times new roman, using a margin of 2.5 centimetres. **Over page or late will result in loss of 5% per 100 words/day (eg 1 day late = 2.25 marks from 45). This means that you can have 99 words over before penalty.** Please submit an electronic WORD version to jennifer.cornish@mq.edu.au by 5pm on the due date. Please also scan and attach an assignment coversheet.

This Assessment Task relates to the following Learning Outcomes:
- Communication and information technology skills: using electronic data bases to search for papers in relevant topics
Written and oral communication skills: taking part in class discussions, and presenting papers
Self-awareness skills: identifying and setting targets, time management
Information skills: formulating arguments, judging the relevance and accuracy of information, comparing different points of view
Problem solving: comparing alternative interpretations of neuroscience data, formulating new explanations

Oral Presentation
Due: Week 10, 11 or 12
Weighting: 15%

Oral Presentation (15%) on a journal article of your choice (must involve neuropsychopharmacology) that has been approved by the convener. Students will be allocated to a presentation week at the beginning of semester. Please let the convener know of your paper for presentation by week 8, 2016. Feedback on presentations will be provided by email the week following the final student presentation.

This Assessment Task relates to the following Learning Outcomes:
- Communication and information technology skills: using electronic data bases to search for papers in relevant topics
- Written and oral communication skills: taking part in class discussions, and presenting papers
- Self-awareness skills: identifying and setting targets, time management
- Information skills: formulating arguments, judging the relevance and accuracy of information, comparing different points of view
- Problem solving: comparing alternative interpretations of neuroscience data, formulating new explanations

Class Participation
Due: Week 8, 9 and 10
Weighting: 10%

Class Participation (10%). Students are expected to participate in class discussions, particularly at oral presentation (seminar) sessions to foster understanding and critical evaluation of research papers.

This Assessment Task relates to the following Learning Outcomes:
- Written and oral communication skills: taking part in class discussions, and presenting papers
Information skills: formulating arguments, judging the relevance and accuracy of information, comparing different points of view

Problem solving: comparing alternative interpretations of neuroscience data, formulating new explanations

Delivery and Resources

How unit is taught: Each week the biological bases for neuropsychological disorders will be presented and discussed. Contemporary research literature on a given topic will be presented and discussed.

Unit is taught as 1 x 2 hour lectures/seminars Monday 10am-12pm, Room TBC on iLearn, Semester 1, 2016

The unit is available on iLearn and iLecture.

Unit Schedule

How unit is taught: Each week the biological bases for neuropsychological disorders will be presented and discussed.

Weekly list of topics to be covered:

Week 1 (Feb 29th): Review of basic physiological psychology, Drug Abuse

Week 2 (March 7th): Anxiety Disorders

Week 3 (March 14th): Depression

Week 4 (March 21st): Psychosis

Week 5 (March 28th): Easter Monday – NO CLASS

Week 6 (April 4th): In class examination (on week 1-4 inclusive)

SESSION BREAK

Week 7 (April 25th): ANZAC DAY – NO CLASS

Week 8 (May 2nd): Neurogenesis & Neuroplasticity

Week 9 (May 9th): Alzheimer’s Disease

Week 10 (May 16th): Student Presentations

Week 11 (May 23rd): Student Presentations

Week 12 (May 30th): Student Presentations

Week 13 (June 6th): Parkinson’s Disease (ESSAYS DUE)
Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central. Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy  http://mq.edu.au/policy/docs/academic_honesty/policy.html


Disruption to Studies Policy  http://www.mq.edu.au/policy/docs/disruption_studies/policy.html The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.

In addition, a number of other policies can be found in the Learning and Teaching Category of Policy Central.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct:  https://students.mq.edu.au/support/student_conduct/

Results

Results shown in iLearn, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au.

Student Support

Macquarie University provides a range of support services for students. For details, visit  http://students.mq.edu.au/support/

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

• Workshops
• StudyWise
• Academic Integrity Module for Students
Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

**Learning outcomes**

- Communication and information technology skills: using electronic data bases to search for papers in relevant topics
- Written and oral communication skills: taking part in class discussions, and presenting papers
- Information skills: formulating arguments, judging the relevance and accuracy of information, comparing different points of view
- Problem solving: comparing alternative interpretations of neuroscience data, formulating new explanations

**Assessment tasks**

- Test
- Essay
- Oral Presentation
- Class Participation
PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

**Learning outcomes**

- Written and oral communication skills: taking part in class discussions, and presenting papers
- Information skills: formulating arguments, judging the relevance and accuracy of information, comparing different points of view
- Problem solving: comparing alternative interpretations of neuroscience data, formulating new explanations

**Assessment tasks**

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PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

**Learning outcomes**

- Communication and information technology skills: using electronic data bases to search for papers in relevant topics
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Assessment tasks

• Test
• Essay
• Oral Presentation
• Class Participation

PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

Learning outcomes

• Communication and information technology skills: using electronic data bases to search for papers in relevant topics
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PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:
Learning outcomes

• Written and oral communication skills: taking part in class discussions, and presenting papers
• Self-awareness skills: identifying and setting targets, time management
• Information skills: formulating arguments, judging the relevance and accuracy of information, comparing different points of view
• Problem solving: comparing alternative interpretations of neuroscience data, formulating new explanations

Assessment tasks

• Test
• Essay
• Oral Presentation

PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

Learning outcomes

• Communication and information technology skills: using electronic data bases to search for papers in relevant topics
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