PSYN841

Neuropsychopharmacology

S1 Day 2017

Department of Psychology

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General Information

Unit convenor and teaching staff Unit Convenor Jennifer Cornish jennifer.cornish@mq.edu.au Contact via jennifer.cornish@mq.edu.au
Credit points 4
Prerequisites Admission to MClinNeuro or DClinNeuro
Corequisites
Co-badged status The first 5 weeks of this unit is co-badged with PSY961 - 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://www.mq.edu.au/study/calendar-of-dates

Learning Outcomes

On successful completion of this unit, you will be able to:

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

Assessment Tasks

Name	Weighting	Hurdle	Due
Test	30%	No	Week 5
Essay	45%	No	Week 12
Oral Presentation	15%	No	Week 8, 9, 10 or 11
Class Participation	10%	No	Week 8, 9, 10 and 11

Test

Due: **Week 5**
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 5 of semester 1, March 27th 2017.

On successful completion you will be able to:

- 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 12**
Weighting: **45%**

Essay (45%) due to be emailed to Jen by 5pm Friday June 2nd, 2017 (week 12). *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 submit to Turnitin on the link provided on ilearn.

On successful completion you will be able to:

- 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 8, 9, 10 or 11**
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 semester break, 2017. Feedback on presentations will be provided by email the week following the final student presentation.

On successful completion you will be able to:
- 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, 10 and 11**
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.

On successful completion you will be able to:
- 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 and pharmacotherapies 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, E4B 314, Semester 1, 2017

The unit is available on iLearn and iLecture.

Unit Schedule

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

Weekly list of topics to be covered:

Week 1 (Feb 27th): Review of basic physiological & pharmacology, Drug Abuse

Week 2 (March 6th): Anxiety Disorders

Week 3 (March 13th): Depression

Week 4 (March 20th): Psychosis

Week 5 (March 27th): In class examination (on week 1-4 inclusive)

Week 6 (April 3rd): Neurogenesis & Neuroplasticity

Week 7 (April 10th): Alzheimer's Disease

SESSION BREAK

Week 8 (May 1st): Student Presentations

Week 9 (May 8th): Student Presentations

Week 10 (May 15th): Student Presentations

Week 11 (May 22nd): Student Presentations

Week 12 (May 29th): Parkinson's Disease (ESSAYS DUE this Friday June 2nd)

Week 13 (June 5th): Paediatrics

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

Assessment Policy http://mq.edu.au/policy/docs/assessment/policy_2016.html

Grade Appeal Policy http://mq.edu.au/policy/docs/gradeappeal/policy.html

Complaint Management Procedure for Students and Members of the Public http://www.mq.edu.au/policy/docs/complaint_management/procedure.html

Disruption to Studies Policy (in effect until Dec 4th, 2017): http://www.mq.edu.au/policy/docs/disruption_studies/policy.html

Special Consideration Policy (in effect from Dec 4th, 2017): https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration

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
- Ask a Learning Adviser

Student Services and Support

Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

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
- 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
- Class Participation

PG - Discipline Knowledge and Skills

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

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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

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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
- 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
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Assessment tasks

- Test

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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
- 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

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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
- Class Participation