



THE UNIVERSITY OF  
**MELBOURNE**

**Mind, Brain, & Behaviour 1  
PSYC90097**

**Mind, Brain, & Behaviour 2  
PSYC90098**

**Intensive Summer School Program  
2019 Manual**

**Melbourne School of Psychological Sciences**

**Faculty of Medicine, Dentistry & Health Sciences**

**The University of Melbourne**

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## **1. PSYCHOLOGY LEVEL 1 – WHO’S WHO AND WHAT’S WHAT**

### **1.1 Introduction**

Welcome to Mind, Brain, and Behaviour 1 (90097) & 2 (90098), which are taught intensively during the summer semester. This manual provides information about the structure, content and organisation of these subjects. You will find that it answers most of the common questions that arise during the semester and provides guidance about where to seek answers to other questions (see Section 1.5). We hope that the summer semester is an enjoyable and successful one for you.

### **1.2 Department Contact Details**

The Department of Psychological Sciences at the University of Melbourne is part of the Faculty of Medicine, Dentistry, and Health Sciences. It is one of the largest Psychology departments in Australia. There are many ways to contact the Department:

<b>ADDRESS:</b>	Melbourne School of Psychological Sciences Redmond Barry Building University of Melbourne VIC 3010
<b>PHONE:</b>	(03) 8344 6377
<b>FAX:</b>	(03) 9347 6618
<b>EMAIL:</b>	<a href="mailto:enquiries@psych.unimelb.edu.au">enquiries@psych.unimelb.edu.au</a>
<b>WEB:</b>	<a href="http://www.psych.unimelb.edu.au">www.psych.unimelb.edu.au</a>

### 1.3 Summer Semester Staff

Position	Email
<b>Head of Department</b>	
Prof. Sarah Wilson	<a href="mailto:hod-psych@unimelb.edu.au">hod-psych@unimelb.edu.au</a>
<b>Subject Coordinator</b>	
Dr Simon Cropper	<a href="mailto:scropper@unimelb.edu.au">scropper@unimelb.edu.au</a>
<b>Grad. Dip. and Summer Coordinators</b>	
Tom Vilsten & Matt Barbetti (Administration)	<a href="mailto:graddip-psych@unimelb.edu.au">graddip-psych@unimelb.edu.au</a>
Dr Simon Cropper (Academic)	<a href="mailto:scropper@unimelb.edu.au">scropper@unimelb.edu.au</a>
<b>Lecturers</b>	
Dr Jason Forte	<a href="mailto:jdf@unimelb.edu.au">jdf@unimelb.edu.au</a>
Dr Simon Cropper	<a href="mailto:scropper@unimelb.edu.au">scropper@unimelb.edu.au</a>
Dr Meredith McKague	<a href="mailto:mckaguem@unimelb.edu.au">mckaguem@unimelb.edu.au</a>
Dr Judi Humberstone	<a href="mailto:judih@unimelb.edu.au">judih@unimelb.edu.au</a>
Prof. Nick Haslam	<a href="mailto:nhaslam@unimelb.edu.au">nhaslam@unimelb.edu.au</a>
Dr Christopher Groot	<a href="mailto:grootc@unimelb.edu.au">grootc@unimelb.edu.au</a>
Dr Peter Koval	<a href="mailto:p.koval@unimelb.edu.au">p.koval@unimelb.edu.au</a>
<b>Tutors</b>	
Mr Saam Saber	<a href="mailto:saam.s@unimelb.edu.au">saam.s@unimelb.edu.au</a>
Ms. Haisu Sun	<a href="mailto:haisu.sun@unimelb.edu.au">haisu.sun@unimelb.edu.au</a>
Ms Rebekah Anderson	<a href="mailto:rebekaha@student.unimelb.edu.au">rebekaha@student.unimelb.edu.au</a>

## 1.4 Timetable

### 1.4.1 Lecture Times and Locations

For each PSYC90097, classes will be held Monday to Friday, between 9:00am and 1:00pm. These will be held in the Singapore Theatre, Melbourne School of Design (located in the building opposite to the Psychology Reception). Classes for PSYC90098 will be held in the Chisolm Theatre in the Babel Building. Any further room information will be provided in class. The first lecture for PSYC90097 is at 9am on Monday 7th January.

### 1.4.2 Subject Programs

The following programme provides the content areas to be covered in each of the three weeks of each subject. For details of what is to be covered in each section, please see Sections 2.1.2 and 2.2.2.

**PSYC90097 Mind Brain and Behaviour 1** (Key: BN-Behavioural Neuroscience; L&C- Learning and Cognition; S&P - Sensation and Perception; RM – Quantitative Psychological Research Methods)

WEEK/DATE	Monday	Tuesday	Wednesday	Thursday	Friday
1 7 January	BN	BN	BN*	BN	RM
2 14 January	S&P	S&P	S&P	S&P	RM
3 21 January	L&C	L&C	L&C	L&C	TBA

Note: \* = A special welcome and orientation function will be held in the afternoon, directly following lectures on this Wednesday.

### PSYC90098 Mind Brain and Behaviour 2

(Key: HD - Human Development; SP - Social Psychology; PP - Personality Psychology; CP- Clinical Psychology; QM - Quantitative Psychological Research Methods)

WEEK/DATE	Monday	Tuesday	Wednesday	Thursday	Friday
1 4 February	HD	HD	HD	HD	SP
2 11 February	SP	SP	CP	CP	RM*
3 18 February	CP	PP	PP	PP	RM

**\* Please note, the online research methods modules described below must be completed before attending your first MBB2 research methods lab class on Friday, February 15<sup>th</sup>.**

## 1.5 Information Sources

### **Learning Management System (LMS) - <http://www.lms.unimelb.edu.au>**

The LMS is an online resource for communicating important course-related information throughout the university. The LMS can be found by visiting the University's main homepage, clicking on 'Current Students' and logging in using your university email login and password.

### **Email**

The University provides email accounts to all students. You must check your University- provided email on a regular basis, because this is used by the Department to communicate with you. You also need to have this email account activated in order to access the LMS. If you wish, you can redirect emails from the account to your other email accounts. Lastly, you should use your student email address for all email correspondence with the University.

### **The Psychology Office (12th Floor, Redmond Barry Building)**

Staff members in the Psychological Sciences Department are responsible for the administration of these subjects, so the Psychology Office should be your first point of call for information. The office is open from 8.45am to 5.30pm, Monday to Thursday, and from 8:45am to 5.00pm on Fridays. The Psychology Office staff should be able to help you with any questions or problems relating to your Psychology studies. If the Office staff cannot answer your questions, they will tell you who can.

### **The Coordinator**

Dr Simon Cropper is the academic coordinator of Mind, Brain and Behaviour 1 and 2 and of the Graduate Diploma. If you are having difficulties you should contact him in the first instance. If you would like to meet with Dr Cropper, please contact him via email to arrange a mutually convenient time. If you are having administrative difficulties with the course as a whole, then you should contact the 12<sup>th</sup> floor office either in person or using the general Graduate Diploma email address listed in this manual.

### **Lecturers**

Lecturers are experts on the areas they teach. If you have any questions arising from what is taught in **lectures** you should speak to the lecturer concerned. All academic staff members are available for consultation by arrangement. Please contact lecturers by email to arrange a time should you wish to meet with them.

### **Tutors**

The tutors are usually graduate students in the department. They have an honours degree in Psychology and are typically studying for a Masters, PhD, or both. They can answer questions concerning information arising from tutorial classes. Outside of class times, they can be contacted via email.

## **2. COURSE STRUCTURE OF PSYCHOLOGY (PSYC90097 & PSYC90098)**

### **2.1 Subject Structure – PSYC90097**

The subject covers four content areas: (i) Behavioural Neuroscience, (ii) Sensation and Perception, (iii) Learning and Cognition, and (iv) Quantitative Psychological Research Methods.

#### **2.1.1 Subject Objectives**

- To communicate the expansive and comprehensive nature of the academic discipline of Psychology.
- To introduce the broad areas and varied approaches that comprise the field of Psychology, communicating both their similarities and their differences;
- To develop an understanding of some key psychological concepts and theories from several critical areas of psychology;
- To develop skills in the use and evaluation of scientific methodology and enquiry, including research design and data analysis, in the form of both group and individual work;
- To develop basic skills in the critical evaluation of psychological literature and in the clear oral and written communication of that critique.

#### **2.1.2 Description of Sections**

##### **Behavioural Neuroscience**

**Lecturer: Dr Jason Forte**

This unit addresses issues relating to how biology underlies and influences behaviour. Specific areas covered include: (i) basic brain and nervous system structure and function, with examples of brain dysfunction and its consequences; (ii); methods of determining brain function (iii) how vision, hearing, touch and movement are processed; (iv) neurological underpinnings of higher order functions including emotion, attention and consciousness.

##### **Sensation and Perception**

**Lecturer: Dr Simon Cropper**

This unit provides an introduction to sensation and perception, with an emphasis on the visual system as a model perceptual system. The approach taken is to question how we construct a meaningful and adaptive internal representation of the external world. The course examines the nature of the relationship between excitation and sensation, the perception of colour, form and motion, and the construction of a meaningful internal neural 'image' of the world. The course draws inspiration from philosophy and the arts, as well as historical and contemporary neuroscience and behavioural research.

##### **Learning and Cognition**

**Lecturer: Dr Meredith McKague**

This unit provides an introduction to the experimental study of higher cognitive processes, such as attention, recognition, memory, language and reasoning. Key theoretical advances and research in a range of cognitive domains are surveyed and students are provided with a general framework for their integration. Aspects of cognitive development and cognitive impairment will also be considered.

## **Quantitative Psychological Research Methods**

**Coordinator: Dr Christopher Groot**

This component of the MBB1 course is taught in the tutorial program and covers methods for collecting and describing human psychological data. Specific issues covered include: (i) the design of experiments to test propositions about human behaviour; (ii) an introduction to distributions of data and the concept of probability; (iii) techniques for sampling data from populations; and (iv) an introduction to critical thinking.

### **2.2 Subject Structure – PSYC90098**

The subject covers five content areas: Human Development, Social Psychology, Personality, Clinical Psychology, and Quantitative Psychological Research Methods.

#### **2.2.1 Subject objectives**

- To communicate the expansive and comprehensive nature of the academic discipline of Psychology.
- To introduce the broad areas and varied approaches that comprise the field of Psychology, communicating both their similarities and their differences;
- To develop an understanding of some key psychological concepts and theories from several critical areas of psychology;
- To develop skills in the use and evaluation of scientific methodology and enquiry, including research design and data analysis, in the form of both group and individual work;
- To develop basic skills in the critical evaluation of psychological literature and in the clear oral and written communication of that critique.

***The ultimate objective of the subject is to DEVELOP ADVANCED SKILLS IN SEEING, LISTENING, THINKING, WRITING AND SPEAKING AS IS FIT FOR EDUCATION, AS OPPOSED TO TRAINING.***

#### **2.2.2 Description of Sections**

##### **Human Development**

**Lecturer: Dr Judi Humberstone**

This unit introduces issues concerning the nature of human development; understanding development in terms of change and constancies; research methodologies for studying

development; the factors which influence development; some major concepts and theories used in accounting for cognitive and social-emotional development.

### **Personality Psychology**

**Lecturer: Professor Nick Haslam**

This unit introduces the study of personality. The four main approaches to personality are examined: psychoanalytic; type/trait; social-cognitive and humanistic. Issues in the measurement of personality are considered.

### **Social Psychology**

**Lecturer: Dr Peter Koval**

This lecture series will provide an introduction to the field of social psychology and to what social psychologists do. Representative samples of topics in social psychology will be explored and will highlight the procedures, methods, and language of social psychology.

### **Quantitative Psychological Research Methods**

**Coordinator: Dr Christopher Groot**

This unit covers methods for drawing conclusions about populations from samples of data. Specific topics include: probability and the distribution of sample means, null hypothesis significance testing; single sample z-tests; t-tests; and correlation. For MBB2, the research methods topic will be taught in two parts: online modules and lab classes. The online modules must be completed prior to attending the first research methods lab class. You will find the online modules in the research methods folder of the MBB2 LMS page.

### **Clinical Psychology**

**Lecturer: Dr Christopher Groot**

This lecture series covers a range of foundational issues in clinical psychology. Topics presented include important issues in classifying and diagnosing mental disorder, the features and diagnosis of mood disorders, psychotic disorders, personality disorders, vulnerability factors for mental disorder, treatment, stigma, clinical trials, and transdiagnostic approaches to understanding mental disorder.

### **3. RECOMMENDED TEXTS AND READING MATERIALS**

Each lecturer will assign readings as appropriate to compliment lectures or lab classes. Some of these readings will be compulsory and examinable, and others will be optional but recommended to aid learning. Lecturers will clarify the prescribed or recommended status of readings in due

course. The prescribed and recommended textbooks for summer subjects are listed below in sections 3.1 and 3.2, respectively.

### **3.1 Prescribed Textbook (PSYC90098)**

**Haslam, N. (2007). *Introduction to personality and intelligence*. London: Sage**

- This text contains prescribed reading for the Personality Psychology component of the MBB2 subject. The book can be purchased from the University of Melbourne Coop Bookshop but students can also borrow copies from the University library or read it free as an e-book, which is also available from the library via [this link](#).
- Note that students can download a copy of the book onto their computer and read it offline using Adobe Digital Editions, but copies of the book cannot be downloaded onto USB.

### **3.2 Recommended Textbooks (PSYC90097 & PSYC90098)**

**Eysenck, M.W. (2009). *Fundamentals of Psychology*. Hove, Sussex, UK: Psychology Press/Palgrave Macmillan.**

- This is a general introductory psychology text that students may find helpful in consolidating material presented in lectures and lab classes. Lecturers may make reference to specific recommended areas of reading with the text.

**Findlay, B. (2014). *How to Write Psychology Reports and Essays (7<sup>th</sup> edition)*. Frenchs Forrest, N.S.W.: Pearson Australia.**

- This text covers many stylistic issues involved in writing documents for psychology in APA Style, and is relevant for completion of the MBB2 assignment.

**Gravetter, F.J. & Forzano, L-A. B. (2016). *Research Methods for the Behavioural Sciences (5<sup>th</sup> Edition)*. Cengage Learning.**

- This text is concerned with the content covered in PSYC90097 research methods. Topics covered are around general research issues including research design, rather than statistics.

**Gravetter, F.J. & Wallnau L.B. (2015) *Statistics for the Behavioural Sciences (10th edition)*. Cengage.**

- This textbook is a valuable resource for undergraduate psychology students, and especially those who are learning about statistics for the first time. Readings from this text corresponding to topics presented in each Quantitative Psychological Research Methods online module and lab class will be recommended to assist

learning.

## 4. ASSESSMENT AND COURSE REQUIREMENTS

### 4.1 Assessment Details

The assessment for each subject will involve three equally-weighted assignments for each section of the course. Relevant details are provided by each lecturer at the beginning of the course. You must complete **ALL** assessment components to pass PSYC90097 and PSYC90098. The final result for the subject is determined by the Department's Examination Board on the basis of your marks for all pieces of assessment. This is the official result and it will appear on your transcript. As per University Regulation 12.3.8, a failing grade for a subject will not be returned unless all pieces of assessment have been reviewed by **two** members of staff, one of whom is a member of the Examination Board.

The specific assessments for PSYC90097 and PSYC90098 are presented below. **The deadline for assessments is firmly set at 8am on each due date unless otherwise specified.**

#### PSYC90097 Assessments

Topic	Assessment	Exam/Due Date
Behavioural Neuroscience	MCQ exam	11 January
Sensation and Perception	Essay	23 January
Learning and Cognition	Online MCQ exam	25 January
Research Methods	Online MCQ exam	25 January

#### PSYC90098 Assessments

Topic	Assessment	Due Date
Human Development	Lab report	13 February
Social Psychology	Short answer take home exam	18 February
Personality Psychology	Short answer take home exam	25 February
Clinical Psychology	MCQ exam	22 February
Research Methods	Online MCQ exam	27 February

## 5. MENTAL HEALTH AND WELLBEING SERVICES

Studying at the University is a good opportunity for personal development and enhancement of well-being. Well-being is not only the absence of illness or discomfort, but also the experience of satisfaction and pleasure in life. University life provides opportunities for a range of physical and social activities. See the range of services offered by the Sport Centre or the activities of the numerous clubs and societies at <http://www.sports.unimelb.edu.au/>. The University also provides an opportunity for enhancing personal skills such as assertiveness training and how to manage your time more efficiently.

Life transitions may also be associated with increased stress, anxiety and other emotional difficulties. Sometimes these experiences lead to an uncharacteristic change in our behaviours such as spending too much time on our own, having difficulty sleeping, smoking and drinking too much, having difficulty concentrating, worrying excessively about things and feeling guilty about relaxing. When such changes occur and seeking help from friends and family does not seem to help, you may consider seeking more help and information from mental health professionals. Additional information can be easily accessed:

**On the Phone:**

Lifeline:	131114
University of Melbourne Counselling Services	8344 6927 or 8344 6928
OCD and Anxiety Helpline University of Melbourne Psychology Clinic	9576 2477 9326 4774
Australian Psychological Society Referral Service	1800 333 497

**On the Internet:**

- <http://www.mentalhealthvic.org.au/>
- <http://www.psych.unimelb.edu.au/clinic/MHterms.html>
- <http://www.beyondblue.org.au>

**Appendix 1 ETHICAL ISSUES**

**A.1 Ethical Obligations in Research Participation**

As part of your summer experience, you may be invited to participate in psychological research projects within a program known as the Research Experience Program (REP). Participation in summer REP is purely voluntary and will have no bearing upon your performance in or successful completion of the summer psychology subjects. We simply are making participation opportunities available to you as an experience designed to enrich your learning. These projects will be offered on Wednesday afternoons and further details will be made available on the LMS in due course.

All projects offered for Research Participation are officially endorsed by the Co-ordinator and have been approved by the Human Research Ethics Committee (a committee that monitors the ethics of research conducted within the University). Staff and students who recruit participants for their research from the Research Participation program have important ethical obligations to those participants. Approval to recruit is granted on the understanding that the researcher obtains informed consent from the participants before commencing the research and provides appropriate debriefing after the research is complete.

The Psychology Department closely monitors the operation of the Research Participation Program (REP) to ensure that all researchers who recruit participants in this way conform to these guidelines. If you feel that these guidelines have not been followed in a project in which you have taken part, you should report this immediately, in writing, to the Coordinator. Breaches of these guidelines are taken very seriously, and, if confirmed, can result in the researcher being denied further access to the Research Participation program.

### ***A.2 Ethical Questions In Relation to Practical Classes***

From time to time you may be asked to participate in class exercises, demonstrations or laboratory procedures as part of your coursework. You will be briefed on the nature of such activities. If, for personal reasons, you do not wish to be involved in such an activity, you have the right to decline to participate or to withdraw. The professional standards expected of psychologists have always required that strict confidentiality be observed with respect to data obtained from clients or participants in research programs. Public sensitivity on matters of privacy has also increased in recent years. You are, therefore, asked to observe confidentiality in the following ways: (1) to restrict the availability of data that are collected in the course of practical work to those who are required to analyse it and to the appropriate staff member; (2) to ensure that data are securely stored; (3) to destroy data records when they are no longer required or to give them into the custody of the appropriate member of staff.