

FACULTY OF SCIENCE SCHOOL OF PSYCHOLOGY

PSYC2071

PERCEPTION & COGNITION

SEMESTER 2, 2016

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1. Information about the	1. Information about the Course				
FACULTY	Science				
SCHOOL OR DEPARTMENT	Psychology				
COURSE CODE	PSYC2071				
COURSE NAME	Perception & Cognition	on			
SEMESTER	Semester 2	YEAR	2016		
UNITS OF CREDIT	6	Stage 2 core course			
ASSUMED KNOWLEDGE, PREREQUISITES OR CO-REQUISITES	PSYC1001, PSYC1011				
SUMMARY OF THE COURSE	Introduces the fundamental principles underlying human perception and cognition such as sensory coding, perceptual organisation, perception of spatial layout, perceptual learning, object recognition, attention, memory storage and retrieval, and decision making. The practical program will provide an introduction to the use of psychophysical methods, experimental approaches to the study of cognitive processes, and the application of findings in society.				

2. Staff Invol	2. Staff Involved in the Course							
COURSE COO	COURSE COORDINATOR							
Name	Phone	Email	Office	Contact Time & Availability				
Damien Mannion	9385-0372	psyc2071@unsw.edu.au	Mathews 1014	By appointment				
LECTURERS			·					
Name	Phone	Email	Office	Contact Time & Availability				
Branka Spehar	9385-1463	b.spehar@unsw.edu.au	Mathews 715	By appointment				
Damien Mannion	9385-0372	d.mannion@unsw.edu.au	Mathews 1014	By appointment				
Dan Navarro	9385-3526	dan.navarro@unsw.edu.au	Mathews 1001	By appointment				
Marcus Taft	9385-3026	m.taft@unsw.edu.au	Mathews 714	By appointment				
TUTORS & DEMO	NSTRATORS							
Name	Phone	Email	Office	Contact Time & Availability				
Tarryn Balsdon		t.balsdon@unsw.edu.au		By appointment				
Aaron Chang		shuai.chang@unsw.edu.au		By appointment				
Zoey Isherwood		z.isherwood@unsw.edu.au		By appointment				
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Daniel Pearson		d.pearson@unsw.edu.au		By appointment				
Bill Reda		b.reda@unsw.edu.au		By appointment				
Luke Vu		mr.luke.vu@gmail.com		By appointment				
Emily White		emily.white@unsw.edu.au		By appointment				

3. Course Timetable						
Component	Staff	Day	Time	Location		
Lecture 1		Monday	14:00 – 15:00	Mathews A		
Lecture 2		Thursday	14:00 – 15:00	Mathews A		
Tutorial	Nathan / Daniel	Monday	09:00 – 11:00	Mathews 209**		
Tutorial	Nathan / Daniel	Monday	11:00 – 13:00	Mathews 209**		
Tutorial	Tarryn	Monday	15:00 – 17:00	Mathews 209**		
Tutorial	Bill	Monday	17:00 – 19:00	Mathews 209**		
Tutorial	Aaron	Tuesday	09:00 – 11:00	Mathews 209**		
Tutorial	Bill / Sonny	Tuesday	13:00 – 15:00	Mathews 209**		
Tutorial	Zoey	Tuesday	15:00 – 17:00	Mathews 209**		
Tutorial	Zoey	Wednesday	09:00 – 11:00	Mathews 209**		
Tutorial	Tarryn	Wednesday	13:00 – 15:00	Mathews 209**		
Tutorial	Zoey	Wednesday	15:00 – 17:00	Mathews 209**		
Tutorial	Aaron	Thursday	09:00 – 11:00	Mathews 203**		
Tutorial	Nadia	Thursday	11:00 – 13:00	Mathews 203**		
Tutorial	Nadia	Thursday	15:00 – 17:00	Mathews 209**		
Tutorial	Luke	Friday	09:00 – 11:00	Mathews 203**		
Tutorial	Bill	Friday	11:00 – 13:00	Mathews 203**		
Tutorial	Emily	Friday	13:00 – 15:00	Mathews 203**		
Tutorial	Emily	Friday	15:00 – 17:00	Mathews 209**		

^{**} All tutorials in Week 2 are conducted online. All tutorials in Weeks 7, 8, and 9 are in Mathews 419.

NB. Course timetables are subject to change without notice. Students are advised to check regularly for updates on the Moodle course site.

Students will have registered for specific tutorial/practical classes when they enrolled. If circumstances necessitate an unavoidable change to your assigned class, submit your request (with detailed justification and other possible tutorial times) to psyc2071@unsw.edu.au by Friday 5 August, 5pm. You will then be informed if a transfer can be made.

Students must attend their assigned practical class (i.e., tutorial) for the whole of the session. If you are unable to attend one of your tutorials for medical reasons, please ensure that you go to another tutorial during the week (you will need to have pre-arranged this with the tutor of the class you will attend, to ensure there is adequate space) and let that tutor know which tutorial you normally go to. You will also need to show your regular tutor a medical certificate.

4. Aims of the Course

This course introduces students to those areas of Psychology that are more closely concerned with "the mind". These are Perception and Cognition. Perception is concerned with the processes and mechanisms which allow us to respond to our immediate environment, and to know its properties. These range from how far things are away from us or each other to the trajectory of a ball in a game of cricket to a facial expression. It is often a surprise to students to realise how unlike an image on the retina our rich perceptual experience is and how much interesting processing (using about half of the entire cortex of the brain) underlies what seems effortless and immediate. We shall consider a range of issues in this section of the course including the reasons for illusions, perceptual organisation and the way in which we learn to perceive. The cognition part of the course introduces students to theories and methods of investigating the fundamental cognitive processes that underlie attention, memory and thought. Cognitive psychologists study a range of phenomena that include such diverse topics as the factors that influence efficient memory storage and retrieval; the variables that contribute to "information overload"; and the methods people use to solve problems and make decisions. Understanding the perceptual and cognitive processes that underlie human behaviour has a number of important benefits. For example, consider an air traffic controller monitoring plane movements, a driver trying to avoid a pedestrian, a witness in a court case trying to recall past events, or a student studying for an exam. All of these tasks have significant consequences, yet people who perform them are constrained by a number of limitations. In this course we identify these constraints (that are rarely recognised by the people performing the task) and consider their implications.

Broadly, all of these phenomena depend on understanding how people process information and are often described as the study of "human information processing". This subject is primarily concerned with the behaviour of humans, but analogies are often drawn between human information processing and information processing by machines - the domain of "artificial intelligence". Working out how a computer can be programmed to perform particular perceptual or cognitive tasks contributed to thinking about how people do these tasks. It turns out that the engineering problems that we solve when we see, walk, plan, and make it through the day are far more challenging than landing on the moon or sequencing the human genome. Computers are still very poor at recognising scenes and objects because the complexity of biological perceptual processing cannot yet be replicated. The complementary approaches of cognitive psychologists and computer scientists to understanding mental processes, and their interactions with other disciplines such as philosophy and neuroscience that are also concerned with understanding the mind, have led to the development of the discipline known as "cognitive science".

5.	. Student Learning Outcomes						
	By the end of this course, you should have advanced your research, inquiry and analytical thinking skills by developing:						
1.	A knowledge and understanding of psychology at an intermediate level with regard to:	1.1. 1.2.	Perception and cognition as disciplines and their major objectives. Advanced knowledge and understanding of the major concepts, theoretical perspectives, empirical findings, and historical trends in perception, cognition, information processing, and language. Major contemporary themes in perception and cognition.				
2.	An intermediate knowledge of research methods in psychology, enabling you to:	2.1.2.2.2.3.2.4.2.5.	Describe, apply, and evaluate the different research methods used in perception and cognition. Demonstrate practical skills in research methods in perception and cognition. Locate, evaluate, and use information appropriately in the research process. Critically analyse theoretical and empirical studies, formulate testable hypotheses, and choose an appropriate methodology. Use basic web-search, word processing, database, email, spreadsheet, and data analysis programs.				
3.	Intermediate critical thinking skills in	3.1.	Apply knowledge of the scientific method in thinking about problems related to perceptual and cognitive processes.				

	Psychology, enabling you to:	3.2. 3.3. 3.4. 3.5. 3.6. 3.7.	Question claims about perceptual and cognitive processes that arise from myth, stereotype, pseudo-science, or untested assumptions. Demonstrate an attitude of critical thinking that includes persistence, open-mindedness, and intellectual engagement. Evaluate the quality of information, including differentiating empirical evidence from speculation. Recognise and defend against the major fallacies of human thinking. Use reasoning and evidence to recognise, develop, defend, and criticise arguments and persuasive appeals. Demonstrate creative and pragmatic solving of problems in the area of perception and cognition.
4.	An intermediate appreciation of values in Psychology, including the ability to:	4.1. 4.2. 4.3. 4.4.	Use information in an ethical manner (e.g. acknowledge and respect the work and intellectual property rights of others through appropriate citations in oral and written communication). Recognise the limitations of one's psychological knowledge and skills, and value life-long learning. Display high standards of personal and professional integrity in relationships with others. Exhibit a scientific attitude in critically thinking about and learning about human behaviour, and in creative and pragmatic problem solving. Promote evidence-based approaches to understanding and changing human behaviour.
5.	Effective communication skills in Psychology, including the ability to:	5.1. 5.2.	Demonstrate effective oral communication skills in various formats (e.g. debate, group discussion, presentation) and for various purposes. Write effectively in a variety of formats and for a variety of purposes.
6.	Come to understand and apply psychological principles derived from an understanding of perception and cognition in a broader framework, including the ability to:	6.1.6.2.6.3.6.4.	Apply psychological concepts, theories, and research findings in the area of perception and cognition to solve problems in everyday life and in society. Demonstrate a capacity for independent learning to sustain personal and professional development in the changing world of the science and practice of psychology. Reflect on one's experiences and learn from them in order to identify and articulate one's personal, sociocultural, and professional values. Demonstrate insightful awareness of one's feelings, motives, and attitudes based on psychological principles.

6. Graduate Attributes				
School of Psychology Graduate Attributes	Level of Focus 0 = No focus 1 = Minimal 2 = Minor	Activities/Assessment		

^{*}The Graduate Attributes of the Australian Undergraduate Psychology Program was produced as part of the Carrick Associate Fellowship project, "Sustainable and evidence-based learning and teaching approaches to the undergraduate psychology curriculum", and "Designing a diverse and future-oriented vision for undergraduate psychology in Australia", a Discipline-based Initiative funded by the Carrick Institute for Learning and Teaching in Higher Education (see Appendix II), and supported by the Australian Psychological Society, and the University of New South Wales (School of Psychology; Learning and Teaching @UNSW).

	3 = Major	
1. Core knowledge and understanding	3	Activities include demonstrations in lectures and tutorials and discussions in tutorials. Assessed primarily in exams.
2. Research methods in psychology	3	Activities include demonstrations and discussions in tutorials. Assessed in perception and cognition assignments and in exams.
3. Critical thinking skills	3	Activities include demonstrations in lectures and discussions in tutorials. Assessed in perception and cognition assignments and in exams.
4. Values, research and professional ethics	1	Activities include demonstrations and discussions in tutorials.
5. Communication skills	2	Activities include participation in group discussions in tutorials. Assessed in assignments and written components of exams.
6. Learning and application of psychology	2	Demonstrations and discussions within lectures and tutorials. Assessed in perception assignment.

7. Rationale for the Inclusion of Content and Teaching Approach

The course provides intermediate level coverage of topics in perception and cognition. It follows and assumes knowledge from PSYC1001 and PSYC1011. The course provides a foundation for advanced study in visual perception (PSYC3221) and cognitive science (PSYC3211).

8. Teaching Strategies

In addition to the traditional lecture format, the smaller group tutorials will include interactive exercises, hands on experience in measuring perceptual and cognitive functioning like perceptual illusions, visual search efficiency, memory, and decision making.

The assignments for the course should not be seen only as a form of assessment. They are also meant to be provide an opportunity for developing important skills. The assignments are designed to tap into a range of skills, and the preparation required to carry them out should be seen as a learning experience. Feedback is provided not only to justify the mark, but also, and importantly, for the purposes of optimising an understanding of the issues underlying the assignment.

9. Course Schedule							
Week	Lecture Topic & Lecturer	Tutorial/Lab Content	Suggested Readings				
1 (25/7)	First steps in vision (Spehar)	No tutorial	Wolfe: Ch. 2				
2 (1/8)	Cortical visual processing (Spehar) Object perception (Spehar)	Measuring perception (Online)	Wolfe: Ch. 3 Wolfe: Ch. 4				
3 (8/8)	Colour perception (Spehar)	Neural processing (MAT209/MAT203)	Wolfe: Ch. 5				
4 (15/8)	Space perception (Mannion)	Lightness & Colour (MAT209/MAT203)	Wolfe: Ch. 6				
5 (22/8)	Motion perception (Mannion)	Spatial vision (MAT209/MAT203)	Wolfe: Ch. 8				
6 (29/8)	Visual-vestibular interactions (Mannion) Scene perception (Mannion)	No tutorial	Wolfe: Ch. 12				
7 (5/9)	Attention (Navarro)	Mid-session exam (MAT419)	EK: Ch. 5				
8 (12/9)	Categorisation & reasoning (Navarro)	Measuring the mind (MAT419)	EK: Ch. 14				
9 (19/9)	Integration & summary (Navarro)	Attention (MAT419)	EK: Ch. 1				
	Mid-semester brea	nk					
10 (3/10)	No Monday lecture (public holiday) Semantic memory (Taft)	No tutorial	EK: pp. 276-286				
11 (10/10)	Propositions and scripts (Taft) Lexical memory (Taft)	Propositional networks (MAT209/MAT203)	EK: pp. 435-444 EK: pp. 357-371				
12 (17/10)	Working memory (Taft) Long-term episodic memory (Taft)	Decision-making (MAT209/MAT203)	EK: pp. 214-229 EK: pp. 229-242				

10. Assessment								
Accomment Tools	Mainht	Learning Outcomes Assessed	Graduate Attributes Assessed	Date of		Feedback		
Assessment Task	Weight			Release	Submission	Who	When	How
Perception assignment	20%			19 Aug.	By 23:59 2 Sep.	Tutors	23 Sep.	Marks and feedback via Moodle
Mid-semester exam	30%			Week 7 tutorials	Week 7 tutorials			Marks via Moodle
Cognition assignment	20%			16 Sep.	By 23:59 7 Oct.	Tutors	28 Oct.	Marks and feedback via Moodle
Final exam	30%			Exam period	Exam period			-

Perception assignment (20% of your final mark)

You will be given a task that can be answered on the basis of material covered in lectures, tutorials, and in provided supplementary material. This exercise assesses your knowledge and understanding of research methods and their application in perception.

Mid-semester exam (30% of your final mark)

This exam is based on the perception material (lectures and tutorials in Weeks 1 to 6, inclusive). It will consist of 40 multiple choice questions (1.5 marks each) and 2 short-answer questions (20 marks each). It will be conducted in tutorials in Week 7.

Cognition assignment (20% of your final mark)

You will be given a question that can be answered on the basis of material covered in tutorials (in about one page). This exercise assesses your understanding of methodological and theoretical issues in cognitive psychology.

Final exam (30% of your final mark)

This exam is based on the cognition material (lectures and tutorials in Weeks 7 to 12, inclusive). It will consist of 40 multiple choice questions (1.5 marks each) and 2 short-answer questions (20 marks each).

Note that students wishing to apply for Special Consideration should do so within three working days of the assessable event. Applications for all course assessments must be made via Online Services (Special Consideration) on MyUNSW. See the School of Psychology Student Guide for further details on this and other important administrative matters.

11. Expected Resources	11. Expected Resources for Students					
TEXTBOOKS Wolfe, J.M. et al. (2015). Sensation & perception (4 th ed.). Sun Mass.: Sinauer Assocs.						
	Eysenck, M.W., & Keane, M.T. (2015). Cognitive psychology: A student's handbook (7 th ed.). Hove, UK: Psychology Press.					
COURSE MANUAL None						
REQUIRED READINGS	None					
RECOMMENDED INTERNET SITES	http://sites.sinauer.com/wolfe4e http://www.psypress.com/cw/eysenck					

12. Course Evaluation & Development

Courses are periodically reviewed and students' feedback is used to improve them. Feedback is gathered using various means including UNSW's Course and Teaching Evaluation and Improvement (CATEI) process.

13. Plagiarism & Academic Integrity

What is plagiarism?

Plagiarism is presenting someone else's thoughts or work as your own. It can take many forms, from not having appropriate academic referencing to deliberate cheating.

UNSW groups plagiarism into the following categories:

- **Copying:** using the same or very similar words to the original text or idea without acknowledging the source or using quotation marks. This also applies to images, art and design projects, as well as presentations where someone presents another's ideas or words without credit.
- Inappropriate paraphrasing: changing a few words and phrases while mostly retaining the original structure and information without acknowledgement. This also applies in presentations where someone paraphrases another's ideas or words without credit. It also applies to piecing together quotes and paraphrases into a new whole, without referencing and a student's own analysis to bring the material together.
- Collusion: working with others but passing off the work as a person's individual work. Collusion
 also includes providing your work to another student before the due date, or for the purpose of
 them plagiarising at any time, paying another person to perform an academic task, stealing or
 acquiring another person's academic work and copying it, offering to complete another person's
 work or seeking payment for completing academic work.
- **Duplication:** submitting your own work, in whole or in part, where it has previously been prepared or submitted for another assessment or course at UNSW or another university.

Where can I find out more information?

In many cases plagiarism is the result of inexperience about academic conventions. The University has resources and information to assist you to avoid plagiarism. The first place you can look is the section about referencing and plagiarism in each Course Guide, as this will also include information specific to the discipline the course is from. There are also other sources of assistance at UNSW:

How can the Learning Centre help me?

The Learning Centre assists students with understanding academic integrity and how to not plagiarise. Information is available on their website: http://www.lc.unsw.edu.au/academic-integrity-plagiarism. They also hold workshops and can help students one-on-one.

• How can Elise help me?

ELISE (Enabling Library & Information Skills for Everyone) is an online tutorial to help you understand how to find and use information for your assignments or research. It will help you to

search databases, identify good quality information and write assignments. It will also help you understand plagiarism and how to avoid it. All undergraduate students have to review the ELISE tutorial in their first semester and complete the quiz, but any student can review it to improve their knowledge: http://subjectguides.library.unsw.edu.au/elise.

• What is Turnitin?

Turnitin is a checking database which reviews your work and compares it to an international collection of books, journals, Internet pages and other student's assignments. The database checks referencing and whether you have copied something from another student, resource, or off the Internet. Sometimes students submit their work into Turnitin when they hand it in, but academics can also use it to check a student's work when they are marking it. You can find out more about Turnitin here: https://teaching.unsw.edu.au/elearning.

What if plagiarism is found in my work?

If plagiarism is found in your work when you are in first year, your lecturer will offer you assistance to improve your academic skills. They may ask you to look at some online resources, attend the Learning Centre, or sometimes resubmit your work with the problem fixed. However more serious instances in first year, such as stealing another student's work or paying someone to do your work, may be investigated under the Student Misconduct Procedures.

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in a honours thesis) even suspension from the university. The Student Misconduct Procedures are available here

https://www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf

Examples of plagiarism

Using the internet appropriately

A first year student handed in an assignment where she had copied from a website. Her lecturer realised she didn't understand you have to reference websites in the same way you reference books and journal articles. The lecturer explained how to reference and sent her to a workshop at the Learning Centre to help her improve her skills.

Working together on a math assignment

A group of Mathematics students worked together on an assignment when they had been told this was not allowed. All questions where the students had worked together were given zero, and this led to some students failing the assessment.

No referencing in an assessment

A third year student submitted a major assessment that included material from a journal article published in Canada. When his essay was submitted into Turnitin, it let the academic know that the student didn't reference the material. The student was given zero for the essay, and because it was worth 50 per cent he failed the course.

Copying design work

A final year design student used images of someone else's designs in her work and she said the designs were her own. The matter was formally investigated by his Faculty and she was found to have committed academic misconduct and failed the course.

Further information and assistance

If you would like further information or assistance with avoiding plagiarism, you can contact the Learning Centre. The Learning Centre at UNSW has two locations:

UNSW Learning Centre

Lower Ground Floor, North Wing, Chancellery Building (C22 Kensington Campus – near Student Central)

http://www.lc.unsw.edu.au/

Phone: 9385 2060

Email: learningcentre@unsw.edu.au

Opening Hours:

Monday to Thursday: 9am - 5pm and

Friday: 9am - 2.30pm

COFA Campus Learning Centre

Email: cofalearningcentre@unsw.edu.au

Phone: 9385 0739

14. Administrative Matters

The School of Psychology Student Guide, available on http://www.psy.unsw.edu.au/current-students/student-guide, contains School policies and procedures relevant for all students enrolled in undergraduate or Masters psychology courses, such as:

- Attendance requirements;
- Assignment submissions and returns;
- Assessments;
- Special consideration in the event of illness or misadventure;
- Student Code of Conduct;
- Student complaints and grievances;
- Student Equity and Disability Unit; and
- Occupational Health & Safety.

Students should familiarise themselves with the information contained in this Guide.