PSYC3011 – Learning and Behaviour

Unit of Study Code: PSYC3011

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Format of Unit:
2 x 1 hour lectures/week x 13 weeks
1 x 2 hour tutorial/week x 10 weeks
Tutorial classes: maximum of 20 students per group

Credit Point Value: 6 Credit Points

Prerequisites:
12 credit points of Intermediate Psychology:
PSYC2011 (or PSYC2111)
and at least one other Intermediate Psychology Unit from

Assessment:
One 2hr exam (multiple-choice and written-answer questions): 50%
One 2000 word practical report (due Monday week 11): 30%
Three tutorial quizzes held throughout semester: 20%
Unit of study general description:

PSYC 3011 addresses the fundamental concepts and more important research findings related to contemporary theories of associative learning in animals and humans. It examines the application of such fundamental research to issues such as phobias and food choice. It is designed to foster skills in reading primary sources in this area, and provide the opportunity for hands-on experience in research projects in this area.

Specific Graduate Attributes & Student Learning Outcomes.
This course is structured around the graduate attributes associated with the scientist-practitioner model, the basis for the training of psychologists in Australia and internationally. Graduate Attributes are the generic skills, abilities and qualities that students should acquire during their university experience and the School of Psychology is committed to providing an environment to promote these skills. In addition, this unit of study will provide students with generalised and transferable skills that will also be useful in careers outside psychology.

The following graduate attributes and student learning outcomes will be developed through lectures, tutorial and assessment activities in particular. They will be assessed primarily in the report, tutorial quizzes, and in the final examination.

General Learning Outcomes

Knowledge and Understanding of the Principles of Learning. Students are expected to learn the fundamental factors that influence associative learning and learn about basic phenomena that have been discovered through scientific exploration of the behaviour of animals (including humans), as well as core theoretical explanations for these phenomena. Students should gain an understanding of how principles of associative learning apply to everyday life and see how research into learning is relevant to clinical conditions.

Research Methods. Students are expected to discover basic methods of research into associative learning by participating in experiments and learning about the objective, experimental design, analysis of results, and interpretation of results from these experiments. Through this students should develop a critical understanding of the virtues and limitations of experimental methods, and develop an astute understanding of the power of experimental design. They should also learn to work with data and draw conclusions from experimental findings, and write a research report based on a real experiment.

Communication Skills. Students will develop skills in reading primary sources in this area, and will write a standard research report following American Psychological Association (APA) structure and formatting conventions.

Specific Learning Outcomes

- Gain knowledge of the history of the study of animal behavior and learning.
- Learn about basic behavioural phenomena that reveal the conditions under which learning occurs and the content of that learning.
- Understand major theoretical models that describe mechanisms for associative learning, and to appreciate the role of theory in the generation of knowledge in learning.
- Recognise issues specifically related to the study of learning in humans and how simple associative learning theory relates to human behavior in a variety of clinical and everyday settings.
- Gain experience with behavioural experimentation as both a participant and as an experimenter.
- Apply critical abilities in analytical thinking and communication by writing a research report, which will be based on an experiment addressing a current theoretical issue in associative learning.
**Tutorial Programme**

Starting in Week 2, ten 2-hour tutorial meetings will be held at which students will participate in a variety of research projects investigating different issues related to associative learning in both humans and rats. The 2,000-word report is based on one of these projects. Towards the end of this period, the location of the tutorials will change in order to conduct a study with rats in the teaching laboratory in the Badham building. Tutorial quizzes will be conducted during three of these tutorials. Further information about the timing of the quizzes and room changes will be given in lectures at the start of semester and will be available online.

**NOTE:** Attendance at the tutorials is compulsory. At least one of the tutorial quizzes will assess content covered solely in the tutorial program. The quizzes are worth 20% of the total mark.

**NOTE:** The research report must be submitted on line, as well as in hard copy. It will be analysed by plagiarism detection software.
Lecture Programme

Students are expected to attend two 1-hr lectures each week (weeks 1 to 13). Lectures are at 10am on Mondays and 10am on Wednesdays, in Bosch Lecture Theatre 3.

Below is a draft lecture timetable, showing the title of each lecture and the name of the lecturer (note: the scheduling of topics may change from that shown below).

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lec #</th>
<th>Lecturer</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mar 5</td>
<td>L 1:</td>
<td>Livesey</td>
<td>Basic properties of classical conditioning.</td>
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<tr>
<td></td>
<td>Mar 7</td>
<td>L 2:</td>
<td>Boakes</td>
<td>Darwin and mental evolution.</td>
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<tr>
<td>2</td>
<td>Mar 12</td>
<td>L 3:</td>
<td>Boakes</td>
<td>Comparative psychology and early Behaviourism.</td>
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<tr>
<td>3</td>
<td>Mar 19</td>
<td>L 5:</td>
<td>Boakes</td>
<td>Skinner’s operant psychology vs associative learning theory.</td>
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<tr>
<td>4</td>
<td>Mar 26</td>
<td>L 7:</td>
<td>Boakes</td>
<td>Evaluative conditioning in rats and humans.</td>
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<tr>
<td></td>
<td>Mar 28</td>
<td>L 8:</td>
<td>Livesey</td>
<td>The content of conditioning.</td>
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<tr>
<td>5</td>
<td>Apr 2</td>
<td>L 9:</td>
<td>Harris</td>
<td>The conditions necessary for conditioning: contiguity.</td>
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<tr>
<td></td>
<td>Apr 4</td>
<td>L 10:</td>
<td></td>
<td>The conditions necessary for conditioning: contingency.</td>
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<td>----- mid-semester break -----</td>
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<tr>
<td>6</td>
<td>Apr 16</td>
<td>L 11:</td>
<td>Harris</td>
<td>Theories of conditioning: Variations in associability of the CS or US.</td>
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<tr>
<td></td>
<td>Apr 18</td>
<td>L 12:</td>
<td></td>
<td>The Rescorla-Wagner model.</td>
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<tr>
<td>7</td>
<td>Apr 23</td>
<td>L 13:</td>
<td>Harris</td>
<td>The effects of non-reinforcement: extinction.</td>
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<td></td>
<td>Anzac Day</td>
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<tr>
<td>8</td>
<td>Apr 30</td>
<td>L 14:</td>
<td>Harris</td>
<td>Conditioned inhibition – its role in extinction.</td>
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<tr>
<td>May 2</td>
<td>L 15:</td>
<td>Livesey</td>
<td>Latent Inhibition.</td>
<td></td>
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<td>9</td>
<td>May 7</td>
<td>L 16:</td>
<td>Livesey</td>
<td>Perceptual Learning.</td>
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<tr>
<td>May 9</td>
<td>L 17:</td>
<td></td>
<td>Discrimination and generalization.</td>
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<tr>
<td>10</td>
<td>May 14</td>
<td>L 18:</td>
<td>Harris</td>
<td>Social Learning.</td>
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<tr>
<td>May 16</td>
<td>L 19:</td>
<td></td>
<td>Social Learning.</td>
<td></td>
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<tr>
<td>11</td>
<td>May 21</td>
<td>L 20:</td>
<td>Colagiuri</td>
<td>Associative learning and drug use.</td>
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<td>May 23</td>
<td>L 21:</td>
<td></td>
<td>Placebo effect.</td>
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<tr>
<td>12</td>
<td>May 28</td>
<td>L 22:</td>
<td>Thorwart</td>
<td>Pavlovian conditioning in humans</td>
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<tr>
<td>13</td>
<td>June 4</td>
<td>L 24:</td>
<td>Livesey</td>
<td>Distinctions between learning systems.</td>
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<tr>
<td>June 6</td>
<td>L 25:</td>
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<td>Contingency learning and causal reasoning.</td>
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Reading

The main text for the Learning component of Psychology 2 is suitable for many of the lecture topics:


Alternative textbooks (with copies in Fisher Undergraduate Library) that may sometimes be useful include:


Academic Dishonesty and Plagiarism

1. It is your responsibility to know what academic dishonesty and plagiarism are.

Here is the link to the University’s policy:


Make sure that you understand what counts as academic dishonesty and the various types of plagiarism. The Library’s http://www.library.usyd.edu.au/skills/ ‘Plagiarism and Academic Honesty’ program will help.

2. Note that:

i) the School of Psychology will penalise all submitted work that is plagiarised.

ii) Students should note that all assignments (including group projects) will be run through similarity detecting software. This software detects similarities between (a) your assignment and both print and online sources, and (b) assignments submitted by other students, from both current and previous years. If similarities are found, they will be investigated so as to determine the nature of the plagiarism. See Part 5 of the University’s policy.

Avoiding plagiarism – key points

• Plagiarism is a serious offence and may result in failure in the course. Even where students are completing an exercise together, each student must submit separate written work. Incorporation of any material from another student’s assignment is regarded as plagiarism.

• In writing essays or reports to meet coursework requirements, you should use your own words. In some contexts (e.g., theoretical research) it is appropriate to use an occasional quotation. This should be indicated in the conventional way by enclosing the passage within quotation marks and by providing a precise (page number) reference for the source of the quote. In many contexts, especially reports of empirical work, quotations are best avoided.

• “Using your own words” means that you should not borrow from the writing of others – whether from fellow students or published authors. For example, it is not acceptable to base an essay on text from various sources that you have then edited to some degree – even if you cite these sources. First of all, there is the ethical issue arising from the dishonesty of presenting as your own work something which is essentially the work of others. In addition, there are good educational reasons for avoiding this, even where you feel that someone else has expressed some idea far more clearly than you could. One reason is that you must learn to express yourself clearly in writing; like most other skills, this only comes with practice. Another, is the failure to understand information or ideas at all thoroughly if all you have done is reproduce (with some editing) what someone else has written about the topic.

• When you express in your own words what you have learned from various sources, you should cite each source. The standard convention for most written work in psychology is to list references at the end of your essay or report, rather than, for example, to use footnotes. To express some idea without giving a citation implies
that it is your own idea. Therefore, if it is in fact an idea obtained from someone else, this needs to be acknowledged. Listing a set of sources implies that you have read them all. Therefore, you should list as references only those you have actually read. If you are depending on a secondary source, then make this clear, e.g., ... salivary conditioning (Pavlov, 1927; cited in Mazur, 1998).

- The points made here also apply to non-textual material. For example, graphs or tables of data included in a report should be your own work and not copied from others. Very occasionally you may need to ‘quote’ a figure from some other source; if you do so, you should make its origin quite clear.

- In general, avoid letting other students use your work for any kind of assessment. On the rare occasion where this may be appropriate, make sure that the other student acknowledges your contribution as the original author.

- In some cultures, students show their respect for a teacher by copying what the teacher has said or written. In Australian University education, copying a teacher (even if paraphrasing) is plagiarism if the source is not cited.
Research and resource support for Psychology students

The University of Sydney Library has 12 libraries in different locations, on different subjects with different facilities. Fisher Library is where you will find the physical collection of most relevance to your Psychology studies. Fisher Library is located on Eastern Ave, Camperdown campus. We also have loads available online – find us at sydney.edu.au/library/

Matthew Davis is the Faculty Liaison Librarian for Psychology. Matthew is available to help you find and use library resources for your assignments or research. You can email him at library.psychology@sydney.edu.au or phone on 9351 3629. The Psychology Librarian is located at Badham Library, level 1, Badham Building, Science Rd, Camperdown Campus.

Psychology books in high demand

The 2 hour collection is located on Level 3 of Fisher Library. Most of your required and recommended items from the reading lists will be here. You can find a list of your required readings in the catalogue by searching under your Unit of Study code http://opac.library.usyd.edu.au/search/r

Some material in the list is also available to read online.

Psychology subject guide

There is a comprehensive subject guide that includes links to psychology databases, internet resources, information on tests and measurements, referencing guides, and much more. Take a look at http://libguides.library.usyd.edu.au/psychology

You can also enrol in free research, database and EndNote training classes on this site.

Need a refresher after the long vacation?

Watch and listen to these online learning objects and get back up to speed with information literacy skills on topics such as research, essay writing and referencing. http://www.library.usyd.edu.au/skills/