

PHIL 2628: Elementary Logic

Second Semester 2007

Course Information Sheet

24 July 2007

This information sheet may be updated during the course of the semester. The WebCT site will always contain the latest version. Please check that the version you are consulting has the same date as the version on WebCT.

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1 Lecturer

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2 Tutor

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3 Class Times and Locations

Lecture (weeks 1–13):

Tue 2–4 Education Lecture Theatre 351

Tutorial (weeks 2–13, except week 5 [assignment 1 due] and week 10 [assignment 2 due]):

Wed 9–10 Carslaw Tutorial Room 274

You should be aware of Faculty policy on attendance at classes: see Chapter 4 of the Faculty of Arts Handbook, which is on the web at http://www.usyd.edu.au/handbooks/arts/04_ugstudy.shtml.

4 UoS Description

An introduction to modern logic: the investigation of the laws of truth. One essential aspect of good reasoning or argumentation is that it is valid: it cannot lead from true premisses to a false conclusion. In this course we learn how to identify and construct valid arguments, using techniques such as truth tables, models and truth trees. Apart from being a great aid to clear thinking about any subject, knowledge of logic is essential for understanding key areas of contemporary philosophy, linguistics, mathematics and computing.

5 UoS Objectives

This Unit of Study will provide students with a grounding in classical logic, covering both propositional logic, and predicate (also known as quantificational, or first order) logic.

6 UoS Outcomes

By the end of this Unit of Study, students will be familiar with both model theory and proof theory of propositional and predicate logic.

7 Textbook

Rod Girle, *Introduction to Logic*, Prentice Hall, 2002. Available from the Co-Op Book Shop on campus for \$49.95.

8 WebCT Site

Lecture slides will be available on WebCT the day after each class. The WebCT site will also be used for any announcements, and dissemination of handouts such as assignment and examination information. To log in, click on the ‘Current Students’ link on the University homepage and then click on ‘Login USYD eLearning (formerly WebCT)’ — or go direct to <https://learn-on-line.ce.usyd.edu.au/> — and then enter your UniKey/Extro login name and password. If you require assistance with WebCT, please go to Student Express WebCT Help at <http://www.usyd.edu.au/webct/student/trouble/index.shtml>. To access WebCT you will need a computer with an internet connection. A list of on-campus computer access labs is available at <http://itassist.usyd.edu.au/student/services/labs/>.

9 Course Outline

Weeks 1–6 will be on propositional logic, covering Part One of the textbook. Weeks 7–13 will be on predicate logic, covering Part Two of the textbook.

Wk	Main topic	Text
1	Arguments, validity, soundness	ch1
2	Structure of propositions; the language PL	ch2
3	Truth tables	ch3
4	Truth tables and validity, translation	ch4
5	Logical form	ch1, ch2
6	Trees for propositional logic	ch5
7	Intro. to monadic predicate logic	ch8, ch9
8	Truth and models for monadic predicate logic	ch10, notes
9	Trees for monadic predicate logic	ch11
10	Intro. to general predicate logic	ch12
11	Truth and models for general predicate logic	notes
12	Trees for general predicate logic	ch13
13	Identity	ch14

10 Assessment

Assessment for the unit is made up of three components:

(1) and (2) Two homework assignments, each worth 25% of your final mark.

The first assignment is due on Thursday 23 August (week 5) and will cover material up to and including week 4.

The second assignment is due on Thursday 4 October (week 10) and will cover material up to and including week 9.

The assignment questions will be posted on WebCT one week prior to the due dates. The assignments must be handed in to the SOPHI office by 4.30pm on the due date. The office is located on Level 3, Lobby H, in the Main Quadrangle. Students may not hand essays or assignments directly to the lecturer or tutor. A completed and signed cover sheet must be attached to the front of all written work submitted. Written work will not be marked if the plagiarism policy compliance statement on the cover sheet is unsigned. Students should be aware of University policy on plagiarism: http://www.usyd.edu.au/ab/policies/Academic_Honesty_Cwk.pdf. Cover sheets are available at the SOPHI office. Students are advised to retain a copy of all written work. All incoming essays and assignments are date stamped by the office. Assignments not submitted on or before the due date

are subject to penalty. Late work is penalised at the rate of 2% per weekday late and 2% per weekend late. Requests for extension must be submitted in writing to the unit coordinator on or before the due date. Extensions will not be granted for pressures of outside work or competing academic commitments. Late assignments will not be accepted more than 2 weeks after the due date unless you have an exceptional reason and consult the Course Coordinator before the two weeks is up.

(3) One 2-hour final examination, worth 50% of your final mark, to be held in the final examination period. Further information about the exam content will be distributed in the final lecture.

The date of the exam is set by the University, not by the Philosophy Department. The University expects students to be available for the entire examination period (Monday November 5th to Saturday November 17th). The exam could be at any time during the examination period. Students should not plan any travel in the examination period until the examination timetable has been announced (4th October). This applies to all students: overseas students, exchange students and domestic students.

If, due to illness, injury or disability, you have special requirements for the exam, contact the Examinations Office well in advance of the exam. They can arrange extra writing time, a scribe, or a separate exam room. If you have a clash of exams (i.e. two exams at the same time), contact the Examinations Office. They can make arrangements for you to resolve the clash. If your performance in the exam is adversely affected by illness or misadventure, put in a Special Consideration Form. This is done through the Arts Faculty Office, and requires appropriate documentation (e.g. a medical certificate). Note that applications must be received within one week of the date of the exam. If, due to serious illness or misadventure, you are prevented from attending the exam at all, you must contact the course coordinator within 3 days of the exam to arrange a makeup exam. Do not put in a special consideration form in these circumstances: you must contact the course coordinator directly. If you do not sit the exam, and do not contact the course coordinator within three days, you will get AF (Absent Fail), regardless of any special consideration form you have submitted. Special consideration can only help you if you have sat the exam. If you have not sat it at all, you need to contact the course coordinator to see if you can get a makeup exam. In order to qualify for a makeup exam, you must have documentation (e.g. a medical certificate) confirming that you were not able or fit to sit the exam. If you are able to attend the exam, you must do so. If you miss the exam and then apply for the makeup exam but do not have adequate grounds and adequate documentation which show that you could not have attended the exam, then you will be refused the makeup exam.