



ARTS2375

Philosophical Logic

Term One // 2021

Course Overview

Staff Contact Details

Convenors

Name	Email	Availability	Location	Phone
Markos Valaris	m.valaris@unsw.edu.au	Online, by appointment. For queries about the content of the course, contact the course lecturer.	Morven Brown Building, Room 339	

Lecturers

Name	Email	Availability	Location	Phone
Philosophy staff. See Moodle for details.	hal@unsw.edu.au	See Moodle for details		

School Contact Information

School of Humanities and Languages

Location: School Office, Morven Brown Building, Level 2, 258

Opening Hours: Monday - Friday, 9am - 5pm

Phone: +61 2 9385 1681

Fax: +61 2 9385 8705

Email: hal@unsw.edu.au

Course Details

Credit Points 6

Summary of the Course

Logic is a wonderful achievement of the human mind. The development of logic as the study of argument and the way premises support conclusions was part and parcel of the development of philosophy. Logic is our attempt at reflecting on how we think, and our attempt to describe what it is like to think well. The idea that human consciousness became self-conscious in this way a little over two millennia ago is an inspiring and daunting realisation. This subject introduces you to an important, enduring and growing part of philosophy. You are not assumed to have any background in logic or philosophy.

Course Learning Outcomes

1. Explain some historically important, and some significant contemporary, philosophical ideas about the techniques for the analysis of argument
2. Display skills associated with scholarly inquiry in the subdiscipline of philosophical logic, particularly conceptual, analytical and critical analysis skills.
3. Assess English language arguments by translation into a number of formal languages.

Teaching Strategies

First, the teaching strategies used encourage analytic and critical thinking skills, as well as the skills of effective communication. You are encouraged to express and refine your own views of the topics discussed, and engage with the complexities of various approaches to philosophical problems.

Second, the content of the course encourages the development of a respect for diversity and intellectual fair-play, as you are required to engage deeply with viewpoints that you may strongly disagree with.

Third, the assessment package in the course is designed to allow you to develop analytic and critical thinking skills, research skills, and effective communication skills. It also allows you to enhance your ability to engage in creative problem solving and independent learning.

Fourth, all class tests and final formal exam are OPEN BOOK. Any printed, or written material may be brought into the test or exam. The idea is that these are testing understanding, not memory.

Assessment

Assessment Tasks

Assessment task	Weight	Due Date	Student Learning Outcomes Assessed
1st assessment task	15%	Week 3	1, 2
Class test	35%	Week 8	2, 3
Final exam	50%	Formal Exam Period	1, 2, 3

Assessment Details

Assessment 1: 1st assessment task

Start date: Not Applicable

Length: One hour

Details:

1st assessment task

This task is an in class test and is very early in the student's experience of logic. This assessment allows us to get feedback back to students focussing on very basic concepts in logic. Students will receive feedback in class in the form of model answers.

Additional details:

This assessment takes place in Week 3. Due to Covid-19 restrictions, the test will be administered online. For up to date information, check the Moodle site and all communications from the lecturer.

Turnitin setting: This is not a Turnitin assignment

Assessment 2: Class test

Start date: Not Applicable

Length: 90 minutes

Details:

This is an open book 90 minute class test which seeks to elicit understanding of key notions which may include Syllogistic logic, proof in propositional logic and one major metatheorem, the soundness theorem.

Students get feedback in the form of in class explanations of which answers were correct and why.

Additional details:

This is a test of 90 minutes duration. Due to Covid-19 restrictions, the test will be administered online. For up to date information, check the Moodle site and all communications from the lecturer.

Turnitin setting: This is not a Turnitin assignment

Assessment 3: Final exam

Start date: Not Applicable

Length: Two hours

Details:

Final exam

This final two hour exam covers all the topics dealt with. This will usually involve first order logic and certain extensions of classical logic such as modal logic and some competing systems such as intuitionistic logic, free logic, and paraconsistent logic.

This is the final assessment for attendance purposes.

Additional details:

This assessment will be timetabled centrally during the exam period. The exam will be online. Further information will be made available through Moodle.

Turnitin setting: This is not a Turnitin assignment

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

Course Schedule

[View class timetable](#)

Timetable

Date	Type	Content
Week 1: 15 February - 19 February	Blended	Introduction: An introduction to philosophy and argumentation, including discussions of the differences between: arguments, premises, and conclusions; truth, validity, and soundness; and deductive and inductive arguments.
Week 2: 22 February - 26 February	Blended	Aristotle's Syllogistic Logic: An examination of Aristotle's syllogistic logic, including categorical propositions, relations of judgements, figures and moods of syllogisms, and ontological commitment.
Week 3: 1 March - 5 March	Blended	Beyond Aristotle: A demonstration of how we can use venn diagrams to test syllogisms for validity, followed by a consideration of the limitations of Aristotle's system of logic and an introduction to Stoic logic.
	Assessment	1st Assessment in Class. See Moodle for details
Week 4: 8 March - 12 March	Blended	Formal Systems: A discussion of how we can systematise our language through the use of formal systems, including an examination of the difference between syntax and semantics, and an introduction to Propositional Logic L .
Week 5: 15 March - 19 March	Blended	Propositional Logic L: A development of our formal system L , including the introduction of a number of connectives and rules.
Week 7: 29 March - 2 April	Blended	More on L: A discussion of how truth tables can be used to test for validity, followed by demonstrations of the soundness and completeness theorems for L .
Week 8: 5 April - 9 April	Blended	Predicate Logic and Extending L to QL: A discussion of the logic of <i>all</i> and <i>some</i> .
	Assessment	Online test, See Moodle for details.
Week 9: 12 April - 16 April	Blended	Modal Logic: A discussion of the logic of <i>necessity</i> and <i>possibility</i> .
Week 10: 19 April - 23 April	Blended	Logical Problems and Paradoxes: A consideration of several famous thought experiments upon which we can hone our logical skills.

Resources

Prescribed Resources

An ebook version of the Textbook will be available on Moodle

Recommended Resources

Not available

Course Evaluation and Development

The course will be formally reviewed by myExperience.

Submission of Assessment Tasks

Turnitin Submission

If you encounter a problem when attempting to submit your assignment through Turnitin, please telephone External Support on 9385 3331 or email them on externalteltsupport@unsw.edu.au . Support hours are 8:00am – 10:00pm on weekdays and 9:00am – 5:00pm on weekends (365 days a year). If you are unable to submit your assignment due to a fault with Turnitin you may apply for an extension, but you must retain your ticket number from External Support (along with any other relevant documents) to include as evidence to support your extension application. If you email External Support you will automatically receive a ticket number, but if you telephone you will need to specifically ask for one. Turnitin also provides updates on their system status on Twitter.

Generally, assessment tasks must be submitted electronically via either Turnitin or a Moodle assignment. In instances where this is not possible, it will be stated on your course's Moodle site with alternative submission details.

For information on how to submit assignments online via Moodle: <https://student.unsw.edu.au/how-submit-assignment-moodle>

Academic Honesty and Plagiarism

Plagiarism is using the words or ideas of others and presenting them as your own. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement.

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/or progression of ideas of the original, and information without acknowledgement. This also applies in presentations where someone paraphrases another's ideas or words without credit and to piecing together quotes and paraphrases into a new whole, without appropriate referencing.

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.

Inappropriate citation: Citing sources which have not been read, without acknowledging the "secondary" source from which knowledge of them has been obtained.

Duplication ("self-plagiarism"): 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.

Correct referencing practices:

- Paraphrasing, summarising, essay writing and time management
- Appropriate use of and attribution for a range of materials including text, images, formulae and concepts.

Individual assistance is available on request from The Learning Centre (<http://www.lc.unsw.edu.au/>). Students are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and proper referencing of sources in preparing all assessment items.

UNSW Library also has the ELISE tool available to assist you with your study at UNSW. ELISE is designed to introduce new students to studying at UNSW but it can also be a great refresher during your study.

Completing the ELISE tutorial and quiz will enable you to:

- analyse topics, plan responses and organise research for academic writing and other assessment tasks
- effectively and efficiently find appropriate information sources and evaluate relevance to your needs
- use and manage information effectively to accomplish a specific purpose
- better manage your time

- understand your rights and responsibilities as a student at UNSW
- be aware of plagiarism, copyright, UNSW Student Code of Conduct and Acceptable Use of UNSW ICT Resources Policy
- be aware of the standards of behaviour expected of everyone in the UNSW community
- locate services and information about UNSW and UNSW Library

Some of these areas will be familiar to you, others will be new. Gaining a solid understanding of all the related aspects of ELISE will help you make the most of your studies at UNSW.

<http://subjectguides.library.unsw.edu.au/elise/aboutelise>

Academic Information

For essential student information relating to:

- requests for extension;
- late submissions guidelines;
- review of marks;
- UNSW Health and Safety policies;
- examination procedures;
- special consideration in the event of illness or misadventure;
- student equity and disability;
- and other essential academic information, see

<https://www.arts.unsw.edu.au/current-students/academic-information/protocols-guidelines/>

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Acknowledgement of Country

We acknowledge the Bedegal people who are the traditional custodians of the lands on which UNSW Kensington campus is located.