



FACULTY OF ARTS
DEPARTMENT OF PHILOSOPHY

Philosophy 379 Lec 01 – Logic II

Winter 2017 Course Outline

Instructor: Ali Kazmi
Office: SS 1252
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Lectures: T R 14:00-15:15 in EDC 057
Office Hours: TR 12:30-13:30

Teaching Assistant: Samara Burns
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Office Hours: M 13:30-14:30; R 11:00-12:00

Course Description

This course is an introduction to the meta-theory of first-order logic. The topics include the undecidability of first-order logic, the soundness and the completeness of its formalizations, the compactness theorem, and the Lowenheim-Skolem theorems.

Course Prerequisite

PHIL 279 or 377.

Course Learning Outcomes

Students will learn to prove the following results about first-order logic: (i) a set of sentences is satisfiable, if every finite subset of it is satisfiable, (ii) every satisfiable set of sentences has a countable model, (iii) there is a sound and complete procedure for unsatisfiability, (iv) the decision problem for satisfiability is unsolvable.

Required Text

George Boolos, John Burgess, and Richard Jeffrey, *Computability and Logic*, 5th edition (Cambridge University Press).

Evaluation

There will be four take-home assignments, each weighted 10% of the final mark. In addition, there will be three in-class tests. The first test will be weighted 25%, the second test will be weighted 25%, and the third test will be weighted 10% of the final mark. No late coursework will be accepted under normal circumstances. There will be no Registrar-scheduled final examination. The following table will be used to calculate letter grades from the final marks. Passing mark in any one test or assignment is not required to pass the course.

0-45% F	56-60% C-	71-75% B-	86-90% A-
45-50% D	61-65% C	76-80% B	91-95% A
51-55% D+	66-70% C+	81-85% B+	96-100% A+

Schedule of Assignments and In-Class Tests

Assignment	Given On	Due in Class On
#1	January 24	January 31
#2	January 31	February 7
#3	March 7	March 14
#4	March 14	March 21

In-Class Test	Held On
#1	February 14
#2	March 28
#3	April 11

IMPORTANT DEPARTMENTAL, FACULTY AND UNIVERSITY INFORMATION

Academic Honesty

Cheating or plagiarism on any assignment or examination is regarded as an extremely serious academic offence, the penalty for which may be an F on the assignment, an F in the course, academic probation, or requirement to withdraw from the University. See the relevant sections on 'Academic Misconduct' in the current University Calendar. Intellectual honesty requires that your work include adequate referencing to sources. Plagiarism occurs when you do not acknowledge or correctly reference your sources. If you have questions about correct referencing, consult your instructor.

Academic Accommodation

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services. SAS will process the request and issue letters of accommodation to instructors. For more information on support services and accommodations for students with disabilities, visit <http://www.ucalgary.ca/access/>. Students who require accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their instructor. The full policy on student accommodations is available at http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy_0.pdf

D2L Help

Desire2Learn is UCalgary's online learning management system. Important information and communications about this course may be posted on D2L. Go to <http://www.ucalgary.ca/it/services/d2l> for help.

General Academic Concerns and Program Planning

Have a question but not sure where to start? The Arts Students Centre is your information resource for everything in the Faculty of Arts. Drop in at SS102, call 403-220-3580, or email ascarts@ucalgary.ca. Advisors in the ASC can also provide assistance and advice in planning your program through to graduation. Visit the Faculty of Arts website at <https://arts.ucalgary.ca/undergraduate> for detailed information on common academic concerns

Advice on Philosophy Courses

You may find answers to your more specific questions about a philosophy degree on the Department of Philosophy's website <http://phil.ucalgary.ca>, or contact one of Philosophy's Undergraduate Advisors. Jeremy Fantl (jfantl@ucalgary.ca), Reid Buchanan (buchanan@ucalgary.ca), Megan Delehanty (mdelehan@ucalgary.ca).

Registration Overload/Prereq Waivers

If you are seeking to register in a Philosophy course that is full or to get permission to waive the prereqs for a course, email the Department Manager, Merlette Schnell (schnell@ucalgary.ca). Include the specific course information and your UCID number in your request.

Protection of Privacy

The University of Calgary is under the jurisdiction of the provincial Freedom of Information and Protection of Privacy (FOIP) Act. The Department of Philosophy ensures the student's right to privacy by requiring all graded assignments be returned to the student directly from the instructor or teaching assistant.

Internet and Electronic Communication Devices

Devices such as laptops, tablets, and smartbooks are allowed provided that they are used exclusively for instructional purposes and do not cause disruption to the instructor or to fellow students. Cell phones and paging devices should be set to silent mode during lectures. Audio or video recording of lectures is not permitted without the written permission of the instructor. Students violating this policy are subject to discipline under the University of Calgary's Non-Academic Misconduct policy

Emergency Evacuation:

In case of an emergency evacuation during class, students must gather at the designated assembly point nearest to the classroom. The list of assembly points is found at <http://www.ucalgary.ca/emergencyplan/assemblypoints> . Please check this website and note the nearest assembly point for this course.

Other Helpful Contacts

- Safewalk and Campus Security: 403-220-5333.
- Faculty of Arts Student Representatives: 403-220-6552, arts1@su.ucalgary.ca , arts2@su.ucalgary.ca, arts3@su.ucalgary.ca, arts4@su.ucalgary.ca .
- Student Ombudsman: <http://www.ucalgary.ca/provost/students/ombuds>