PHIL 377 Lec 02
Elementary Formal Logic
Winter 2020
TR 18:00-19:15, ST 126

COURSE OUTLINE

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Office Hours: MR 15:30-16:30
Office Phone:

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Office Hours:
Office Phone: (403) 220-8622

COURSE INFORMATION
This course is an introduction to a formal system that is called first-order logic. We will mainly study what a valid argument is, how to prove validity of an argument, and how to translate natural language sentences into a formal one. We will also discuss some metalogical concepts like decidability, soundness and completeness of our formal systems.

PREREQUISITE(S)
There are no prerequisites.

COURSE OBJECTIVES/LEARNING OUTCOMES
The main objective of this course is to make you comfortable in using/applying formal logic in/to your own field (philosophy, computer science, mathematics, linguistics, etc.). More concretely, by the end of this course, you will be able to:

- Tell good and bad arguments apart,
- Translate natural language sentences into a formal language,
- Prove various logical properties (validity, satisfiability, etc.),
- Pay close attention to minute details, and
- Think formally and systematically.

REQUIRED/RECOMMENDED TEXTBOOKS, READINGS AND MATERIALS
We will use an original textbook which will be made available for free on D2L.

I will heavily use an online learning platform; therefore, you will need stable internet access.
COURSE ASSESSMENT AND EVALUATION
There will be three in-class examinations (closed book). The first two examinations will be weighted 30% of the final mark each, and the third examination will be weighted 10% of the final mark. In addition, there will be eight equally weighted assignments. The best six of these will determine 30% of the final mark. There will be no Registrar-scheduled final examination.

The following table will be used to convert final marks into letter grades:

<table>
<thead>
<tr>
<th>Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>0-45%</td>
<td>F</td>
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<tr>
<td>46-50%</td>
<td>D</td>
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<tr>
<td>51-55%</td>
<td>D+</td>
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<tr>
<td>56-60%</td>
<td>C-</td>
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<tr>
<td>61-65%</td>
<td>C</td>
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<td>66-70%</td>
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<tr>
<td>71-75%</td>
<td>B-</td>
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<tr>
<td>76-80%</td>
<td>B</td>
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<tr>
<td>81-85%</td>
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<tr>
<td>86-90%</td>
<td>A-</td>
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<tr>
<td>91-95%</td>
<td>A</td>
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SCHEDULE OF ASSIGNMENTS AND EXAMINATIONS

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Given On</th>
<th>Due On</th>
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<tbody>
<tr>
<td>#1</td>
<td>January 16</td>
<td>January 21</td>
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<tr>
<td>#2</td>
<td>January 23</td>
<td>January 28</td>
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<td>January 30</td>
<td>February 4</td>
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<td>#7</td>
<td>March 26</td>
<td>March 31</td>
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<tr>
<td>#8</td>
<td>April 2</td>
<td>April 7</td>
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<table>
<thead>
<tr>
<th>In-Class Test</th>
<th>Given On</th>
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</thead>
<tbody>
<tr>
<td>#1</td>
<td>February 13</td>
</tr>
<tr>
<td>#2</td>
<td>March 19</td>
</tr>
<tr>
<td>#3</td>
<td>April 14</td>
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</tbody>
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All the assignments are expected to be submitted electronically. No late tests or assignments will be accepted under normal circumstances.

COMMUNICATION RULES
You can reach the instructor and/or the TA via email. In emailing us, please observe the following rules.

1. Please ensure that “Phil 377” or some other clearly identifying term occurs in the subject line. Otherwise, there is a strong possibility that your message will be deleted unread as spam.
2. If you email to make an appointment, please indicate the times when you are available.
3. Please make sure your first and last names are clearly included in the body of any email message.

We will not respond to email after 7pm or on weekends.

OTHER INFORMATION
Academic Accommodations
It is the student’s responsibility to request academic accommodations according to the University policies and procedures. The student accommodation policy can be found at ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf.

Students needing an Accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities.pdf. Students needing an Accommodation in relation to their coursework or to
fulfil requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to their instructor.

**Absence or Missed Course Assessments**
Students who are absent from class assessments (tests, participation activities, or other assignments) should inform their instructors as soon as possible. Instructors may request that evidence in the form of documentation be provided. If the reason provided for the absence is acceptable, instructors may decide that any arrangements made can take forms other than make-up tests or assignments. For example, the weight of a missed grade may be added to another assignment or test. For information on possible forms of documentation, including statutory declarations, please see ucalgary.ca/pubs/calendar/current/m-1.html

**Student Support and Resources**
Full details and information about the following resources can be found at ucalgary.ca/Registrar/registration/course-outlines
- Wellness and Mental Health Resources
- Student Success Centre
- Student Ombuds Office
- Student Union (SU) Information
- Graduate Students' Association (GSA) Information
- Emergency Evacuation/Assembly Points
- Safewalk

**Academic Advising**
If you are a student in the Faculty of Arts, you can speak to an academic advisor in the Arts Students’ Centre about course planning, course selection, registration, program progression and more. Visit the Faculty of Arts website at arts.ucalgary.ca/advising for contact details and information regarding common academic concerns.

For questions specific to the philosophy program, please visit phil.ucalgary.ca. Further academic guidance is available by contacting David Dick (Undergraduate Program Director dgdick@ucalgary.ca) or Jeremy Fantl (Honours Advisor jfantl@ucalgary.ca). If you have questions regarding registration, please email Rebecca Lesser (Undergraduate Program Administrator phildept@ucalgary.ca).

**Writing Assessment and Support**
The assessment of all written assignments—and, to a lesser extent, written exam responses—is based in part on writing skills. This includes correctness (grammar, punctuation, sentence structure, etc.), as well as general clarity and organization. Research papers must include a thorough and accurate citation of sources. Students are also encouraged to use Writing Support Services for assistance (one-on-one appointments, drop-in support and writing workshops). For more information, and other services offered by the Student Success Centre, please visit ucalgary.ca/ssc.

**Online Resources and Electronic Devices**
Important information and communication about this course may be posted on D2L (Desire2Learn), UCalgary’s online learning management system. Visit ucalgary.service-now.com/it for how-to information and technical assistance.

The instructor reserves the right to establish specific course policies regarding the use of electronic devices. If permitted, the use of devices must be exclusively for instructional purposes, and without disruption to the instructor or fellow students. 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.
Academic Misconduct/Honesty
Cheating or plagiarism on any assignment or examination is an extremely serious academic offense, the penalty for which will be an F on the assignment or an F in the course, and possibly a disciplinary sanction such as probation, suspension, or expulsion. For information on academic misconduct and its consequences, please see the University of Calgary Calendar at ucalgary.ca/pubs/calendar/current/k.html.

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 referencing, please consult your instructor.

University Policies
The Instructor Intellectual Property Policy is available at ucalgary.ca/policies/files/policies/Intellectual%20Property%20Policy.pdf

The University of Calgary is under the jurisdiction of the provincial Freedom of Information and Protection of Privacy (FOIP) Act, as outlined at ucalgary.ca/legalservices/foip. The instructor (or TA) must return graded assignments directly to the student UNLESS written permission to do otherwise has been provided.

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf) and requirements of the copyright act (laws-lois.justice.gc.ca/eng/acts/C-42/index.html).