

Philosophy 325
Logic, Inquiry and Argumentation

Winter 2018
2:00-3:20 MW
Straub 145



Instructor: Professor Scott Pratt
Office Hours: 9:00-10:00 Thursdays (beginning
January 18) and by Appt.
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Course Overview



In this course, we will examine the processes and practices of inquiry and argumentation by considering the logic that underlies them. In the first part of the course, we will consider the phenomenology of inquiry, the structure of arguments, the role of guesswork (abduction), and the practices of communicative action. In the second part, we will study the basics of Aristotelian logic, the limits of the syllogism and the implications of these limits for inductive inquiry. In the final section, we will consider the idea of ordered systems and formal logic and will conclude with a discussion of the role of agency in logic and its implications for a normative theory of argumentation and what it means to be rational.

Course objectives: Upon completion of this course, you will have developed both a facility with and understanding of formal and informal logic, but also an understanding and appreciation of their deep connections to the rational processes of life in a community.

This course satisfies the logic requirement for a major in philosophy.

Also see [Course Policies](#)   for more information about grades and classroom behavior.

Course Texts:

The primary course text, *Logic: Inquiry, Argument and the Science of Order*, will be available at the University bookstore. The textbook selected for this course is unique in its approach (an approach designed, in fact, for the UO philosophy major). Be sure to consult the *errata sheet* ([Errata.pdf](#)  ) for the textbook, available in the “Course Materials” folder of the course Canvas website. Additional course materials will be posted on the course website.

Course Requirements:

- Discussion sections attendance is required. Students **must attend 8 of 10 sections in order to receive a grade better than a C-**.
- Weekly problem sets. These will be distributed and discussed in section each week. Problem sets are due ON CANVAS by the beginning of class each **MONDAY**. Assignments will be reviewed in class on Monday. If you have submitted mistaken answers, you may **RESUBMIT** the assignment by 5:00 pm **TUESDAY**. Corrected answers will receive up to 50% of the points missed on the original submission. Graded problem sets will be available on Canvas on the following Friday. There will be SEVEN problem sets.
- Two exams. The exams will include problems of the sort given on the weekly assignments and short-answer questions. The final exam will be cumulative. The first exam will be held on **Monday, February 5**, and will last 70 minutes. Two hours will be available for the final exam on **Thursday, March 22** beginning at 2:45 pm.
- Final paper. The final paper will be on an assigned topic and will require that you reflect on the several general issues in the philosophy of logic based on class readings and discussion. The final paper must be submitted electronically through Canvas by 2:45 on March 22 **AND** on paper at the beginning of the final exam period. Late papers will not be accepted.

- Participation 10% (note: this is participation in discussion, office hours and email, not attendance); problem sets 35% (7 @ 5% each); midterm exam 15%; final exam 25%; final paper 15%.
- While collaborative study and review of course material is encouraged, all work submitted must be your own. For information on what constitutes academic dishonesty, please consult The Plagiarism Guide for Students: <http://libweb.uoregon.edu/guides/plagiarism/students/>.

PHIL 325—Logic, Inquiry and Argumentation
Readings, Topics, and Assignments

<u>Date</u>	<u>Details</u>
<u>Mon Jan 8, 2018</u>	Lecture: Introduction
<u>Wed Jan 10, 2018</u>	Lecture: Order and Argument
<u>Fri Jan 12, 2018</u>	Discussion: Fanon, Friedman and the Structure of Arguments
<u>Wed Jan 17, 2018</u>	Problem Set 1 (PHIL 325 (CRN 26525)) <u>due by 1:59pm</u>
	Problem Set 1 (PHIL 325 (CRN 26524)) <u>due by 1:59pm</u>
	Problem Set 1 (PHIL 325 (CRN 26523)) <u>due by 1:59pm</u>
	Problem Set 1 (PHIL 325 (CRN 26522)) <u>due by 1:59pm</u>
	Lecture: The Pattern of Inquiry
<u>Fri Jan 19, 2018</u>	Discussion: Analyzing Inquiry
<u>Mon Jan 22, 2018</u>	Lecture: Strategic and Communicative Action Problem Set 2
<u>Wed Jan 24, 2018</u>	Lecture: Validity and Fallacies
<u>Fri Jan 26, 2018</u>	Discussion: Communicative Action and Fallacies
<u>Mon Jan 29, 2018</u>	Lecture: Nominalism, Realism and Categories Problem Set 3
<u>Wed Jan 31, 2018</u>	Lecture: Induction and Validity
<u>Fri Feb 2, 2018</u>	Exam Review
<u>Mon Feb 5, 2018</u>	Mid-Term Exam
<u>Wed Feb 7, 2018</u>	Lecture: Principles of Order and Agent Ontology
<u>Fri Feb 9, 2018</u>	Discussion: Symbolizing Arguments and Simple Proofs
<u>Mon Feb 12, 2018</u>	Lecture: Deductive Proofs
<u>Wed Feb 14, 2018</u>	Lecture: Graphical Proofs
<u>Fri Feb 16, 2018</u>	Discussion: Propositional Logic Proofs
<u>Mon Feb 19, 2018</u>	Lecture: Propositional Proofs Problem Set 4
<u>Wed Feb 21, 2018</u>	Lecture: Quantified Logic
<u>Fri Feb 23, 2018</u>	Discussion: Proofs of Quantified Logic
<u>Mon Feb 26, 2018</u>	Lecture: Graphical Proofs of Quantified Logic

<u>Date</u>	<u>Details</u>
	Problem Set 5
<u>Wed Feb 28, 2018</u>	Lecture: Proofs of Quantified Logic
<u>Fri Mar 2, 2018</u>	Discussion: Quantified Proofs
<u>Mon Mar 5, 2018</u>	Lecture: General Quantification Problem Set 6
<u>Wed Mar 7, 2018</u>	Lecture: General Quantification Proofs
<u>Fri Mar 9, 2018</u>	Discussion: Quantified Proofs
<u>Mon Mar 12, 2018</u>	Lecture: Theory of Agency Problem Set 7
<u>Wed Mar 14, 2018</u>	Lecture: Theory of Agency
<u>Fri Mar 16, 2018</u>	Discussion: Preparation for Final Exam
<u>Thu Mar 22, 2018</u>	Final Exam due by 2:45pm Final Paper due by 5pm