**Logic, Inquiry, Argument**

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**Course Description:**  
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 and the role and practice of induction. 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.

**Required Text:**  
Scott Pratt, *Logic: Inquiry, Argument, and Order*.  
The text is available at the Duckstore. Additional material will be available on Blackboard, and has been compiled by Dr. Pratt while developing the textbook at the University of Oregon.

**Course Structure, Requirements, and Policies:**

**Participation:**  
Lectures and sections will presuppose familiarity with the text. Coming prepared to discuss the assigned text and participating in class and section discussions are requirements.

**Attendance:**  
You are expected to attend class and discussion sections regularly and promptly. More than 2 absences in lecture and 3 absences in section will result in a failing final grade, unless proof of illness or emergency is provided.

**Assignments:**

~Problem sets (8):  
These will be distributed and discussed in section each week. Completed problem sets to be graded are due on Monday of the week following the discussion section.

~Exams (3):  
These will contain problems similar in kind and number to those in the weekly assignments.

~Paper (1):  
This paper (3 pages in length) will discuss the relation between logic and agency. Paper prompts will be posted on Blackboard.
Grading:
Class participation 5 %
Section participation 10 %
Problem Sets (8) 40% (5 each)
Exams (3) 30 % (10 each)
Essay (1) 15 %

Plagiarism:
Group work is encouraged. However, we expect that the work that you hand in is your own. For more information about plagiarism: http://www.libweb.uoregon.edu/guides/plagiarism/students/. Plagiarism is grounds for failing the course.

Accommodation for a Disability:
If you have a documented disability and anticipate needing accommodations in this course, please make arrangements to meet with us soon.

Classroom Etiquette:
Please turn off cell phones for the duration of the class. Facebook, Twitter, texting, etc. are not permitted. You may be asked to leave the classroom and will be considered absent if engaging in these activities.

Schedule of Readings and Assignments:

Wk. 1  Chapter 1: The Significance of Logic
Mon., Apr. 2  Introduction to the course and syllabus
Wed., Apr. 4  Abstraction, Dualism, Incommensurability, Boundaries: 1.1-1.5
Thurs. Apr. 5  Section: introductions, problem set 1
Fri., Apr. 6  Chapter 1: Premises and Conclusions: 1.6-1.7

Wk. 2  Chapter 2: What is Logic?
Mon., Apr. 9  The Study of Logic, Truth, Inference: 2.1-2.2
Wed., Apr. 11  The Process of Inquiry: 2.3-2.4
Thurs. Apr. 12  Section: problem set 2
Fri., Apr. 13  Argument as Inquiry: 2.5-2.6

Wk. 3  Chapter 3: Communicative Action
Mon., Apr. 16  Strategic and Communicative Action and Lifeworlds: 3.1-3.4
Wed., Apr. 18  Validity and Fallacies: 3.5-3.7
Thurs. Apr. 19  Section: problem set 3 and review
Fri., Apr. 20  Continuation of Fallacies and Review

Wk. 4  Chapter 4: Theory of the Syllogism
Mon., Apr. 23  Exam #1 on chapters 1-3
Wed. Apr. 25  Nominalism, Realism and Abduction: 4.1
Thurs. Apr. 26  Section: problem set 4
Fri., Apr. 27  The Theory of the Syllogism and Standard Form Propositions: 4.2-4.4
Wk. 5  Chapters 4 & 5
Mon., Apr. 30  Direct Inference: 4.5-4.6
Wed., May 1    The Validity of Syllogisms: 4.7-4.8
Thurs., May 2  Section: problem set 5
Fri., May 3    Limits of the Syllogism: 5.1

Wk. 6  Chapter 5: Induction and the Limits of Reason
Mon., May 7    Principles of Induction and Analogical Arguments: 5.2-5.3
Wed., May 9    Causal Arguments: 5.5-5.6
Thurs. May 10  Section: problem set 6
Fri., May 11   Probability: 5.7-5.8

Wk. 7  Chapter 6: Principles of Order and Deduction
Wed., May 16  Logic and the Act of Judgment, and Deduction: The Logic of Assertions: 6.4-6.5
Thurs. May 17  Section: review for exam #2
Fri., May 18  Exam #2 on chapters 4 and 5

Wk. 8  Chapter 6 & Chapter 7: An Overview of Quantified Logic
Mon., May 21  Continuation of Deduction
Wed., May 23  Graphical Proofs of Validity: 6.6
Thurs. May 24  Section: problems set 7

Wk. 9  Chapter 7
Mon., May 28  Memorial Day Holiday – No Class
Wed., May 30  Rules of Quantificational Logic: 7.5-7.6
Thurs., May 31  Section: problems set 8
Fri., June 1   The Validity of Syllogism: 7.7

Wk. 10 Chapter 7 & Conclusion
Mon., June 4  Graphical Proofs of Validity: 7.8
Wed., June 6  Border Agents and the Problems of Logic: 7.10
Thurs., June 7  Section: review for exam #3
Fri., June 8  Exam #3 on chapters 6 and 7

Wk. 11  Final Paper due on Friday, June 15th