

PHILOSOPHY 201

Introductory Logic

Spring 2011

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Classes:

- 2 lectures per week, 12.30 – 1.20pm T/Th in room FChem B02
- 1 precept per week (times and locations to be arranged during the first week of semester)

Required Text: *The Logic Book*, 5th edition, by Merrie Bergmann, James Moor and Jack Nelson. McGraw Hill 2009.

Assessment:

- 5 problem sets, drop your worst score: 12.5% each = 50%
 - If a problem set is handed in late you forfeit 5% of the marks for that problem set for each day late. Exceptions only with letter from the Dean of your college.
- Midterm exam (in class, Tuesday 22nd March): 15%
- Final exam: 25%
- Precept participation: 10%

SYLLABUS

We will cover the following 10 topics. We will spend about a week on each of the topics 1 – 6, and a little longer on each of the topics 7 – 10.

Part I: Introduction to Logic

Topic 1: Informal Logic

- Chapter 1, sections 1.1 – 1.5, 1.7.

Part II: Sentential Logic (SL)

Topic 2: SL Syntax

- Chapter 2, section 2.4
- Chapter 6, section 6.1 (optional)

Topic 3: SL Translations

- Chapter 2, sections 2.1 – 2.3

Topic 4: SL Semantics

- Chapter 3, sections 3.1 – 3.5

Topic 5: SL Proof Theory

- Chapter 5, sections 5.1 – 5.3

Topic 6: SL Metalogic: Soundness and Completeness

- Chapter 6, sections 6.3 – 6.4

SPRING BREAK

Part III: Predicate Logic (PL)

Topic 7: PL Introduction and Syntax

- Chapter 7, 7.1 – 7.5

Topic 8: PL Translations

- Chapter 7, 7.6 – 7.8
- Chapter 7, 7.9 (section on identity)

Topic 9: PL Semantics and metalogic

- Chapter 8, 8.1
- Chapter 8, 8.7
- Chapter 8, 8.2 – 8.4

Part IV: Philosophy of Logic

Topic 10: Philosophy of Logic

- Readings will depend on the interests of the class.