

Title and Code of Course: Trends in Philosophical Logic: Classical, Modal, and Non-monotonic Logics ERPB-BSB 9660

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Credit Point Value: 6	Number of Lessons per Week: 2	Type of Course: Seminar <input checked="" type="checkbox"/> Lecture <input type="checkbox"/>	Method of Evaluation: Oral Examination <input type="checkbox"/> In-Class Presentation <input type="checkbox"/> Other <input checked="" type="checkbox"/>
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Course Description:

This course is a composition of three mini courses:

- (1) First an introduction to classical first order logic, the key concepts, some meta-properties, axiomatization and inferencing
- (2) Second a brief excursion to the exciting land of modal logics, argumentations with possibilities and necessities to arrive to the realm of the possible worlds, and their accessibility relation
- (3) Third a peak into the dangerous fields of presumptions, and normalities, and the argumentations used in case of partial information, and the urgency of action.

Every subcourse concludes with a discussion of real life applications, and assessments of the benefits of these logics.

As a compensation of your hard work you will get the skills of

- (1) High standards of rigorous reasoning
- (2) Systematic understanding of multiple logics and their applicability
- (3) Techniques of theory construction

Bibliography:

Barwise, I and J. Etchemendy: Language, Proof, and Logic CSLI Publ. 2011

L Pólos and Hannan, M.T. Reasoning with Partial Knowledge 2002 Sociological Methodology

Recommended:

F. Veltman: Default in Update Semantics 1994

P. Blackburn, et al.: Modal Logic 2002 Cambridge University Press