

Representations of Meaning, 7.5 HEC

Lambda Calculus

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Dowty, David R, Robert Eugene Wall, and Stanley Peters. 1981. *Introduction to Montague semantics*. Dordrecht, Holland: D. Reidel Pub. Co

Robin Cooper gave a course based on this textbook and you can watch the videos here <https://sites.google.com/site/formseminintro/schedule> There are also written lecture notes Cooper, Robin. 2001. Graduate course in formal semantics vt01. URL <https://sites.google.com/site/formseminintro/readings/notes.pdf>, lecture notes

Both Blackburn and Bos and the NLTK book will give you an introduction from the computational perspective.

Blackburn, Patrick, and Johan Bos. 2005. *Representation and inference for natural language. A first course in computational semantics*. CSLI Publications. URL <http://www.let.rug.nl/bos/comsem/book1.html>

Bird, Steven, Ewan Klein, and Edward Loper. 2009. *Natural language processing with Python*. O'Reilly. URL <http://nltk.org/book/>

Another attractive idea is to implement lambda calculus in a typed functional programming language such as Haskell as typed functions will be the basic building blocks that you programme in. If you're interested check out this very nice book

Eijck, J. van, and Christina Unger. 2010. *Computational semantics with functional programming*. Cambridge: Cambridge University Press