

## **COURSES TAUGHT (a selection)**

### **Johan van Benthem 2012**

#### *Introductory Courses*

Logic {mathematicians, philosophers, linguists, computer scientists}  
Mathematics {mathematicians, computer scientists, humanities students}  
Philosophy {philosophers, mathematicians}  
Cognitive science

#### *Mathematical Logic*

Lambda Calculus and Proof Theory  
Model Theory  
Recursion Theory  
Set Theory

#### *Philosophical Logic*

Conditionals and Causality  
Formal Philosophy of Science  
Game-Theoretical Logic  
General Intensional Logic  
Modal Logic  
Temporal Logic  
Logic in Philosophy  
The Role of Logic in Modern Philosophy  
Epistemic Logic, Information Update, and Communication

#### *Logic and Linguistics*

Categorial Grammar  
Logical Semantics (Generalized Quantifiers, Natural Logic)  
Montague Grammar

#### *Logic and Computer Science*

Dynamic Logic  
Logics for Artificial Intelligence  
Logic Programming  
Semantics of Programming Languages  
Reasoning and Programming

#### *Logic and Mathematics*

Logic and Category Theory  
Non-Standard Analysis  
Philosophy of Mathematics  
Universal Algebra  
Advanced Modal Logic

#### *Varia*

Linear Algebra  
Theory of Argumentation  
Logic and Game Theory  
How Mathematics Works (general public evening course)