

Sep/Okt 2018  
Nov/Dec 2018  
Feb/Mar 2019  
Apr/May 2019  
2019/20

all  
Logic,  
Language and  
Computation  
(Aloni)  
[3EC]

## Philosophical Logic

all  
[MoL-FNWI]  
Mathematical  
Proof Methods  
for Logic  
(Hawke)

[MoL-FNWI]  
Topology, Logic and  
Learning  
(Baltag)

[MoL-FNWI]  
Epistemic Paradoxes  
and Philosophical  
Puzzles  
(Smets)

[MoL-FGW]  
Philosophy of  
Mathematics  
(Incurvati)

[MoL-FNWI]  
Dynamic Epistemic  
Logic  
(Baltag)

[MoL-FGW]  
Logic and  
Philosophy  
(TBC)

**L&P**  
[MoL-FNWI]  
Philosophical Logic  
(van Rooij)

[MoL-FGW]  
Advanced topics in  
Philosophy of  
Language  
(Dekker)

**L&P**  
[MoL-FGW]  
Meaning, Reference  
and Modality  
(Dekker)

[MoL-FGW]  
Time  
(van Lambalgen)

[MoL-FNWI]  
Logic and  
Conversation  
(Roelofsens)

**L&L**  
[MoL-FGW]  
Structures for  
Semantics  
(Aloni)

[MoL-FGW]  
Semantics and  
Philosophy  
(Dekker, Aloni)

[MoL-FGW]  
History of logic:  
Theories of Language  
in Early Modern  
Philosophy (Maat)

[RM-Ling]  
Syntax and  
Semantics 1  
(Hengeveld, Abouh)

[RM-Ling]  
Syntax and  
Semantics 2  
(Hengeveld)

## Theoretical Linguistics

## Philosophy

[MoL-FGW]  
Philosophy of  
Techno Science  
(Russo)

[MoL-FGW]  
Introduction to  
the Philosophy  
of Language  
(Brouwer)

[MoL-FGW]  
Ontology:  
Philosophical  
Perspectives  
(TBC)

[MoL-FGW]  
Wittgenstein on  
Ethics and  
Aesthetics  
(Stokhof)

[MoL-FGW]  
Rationality,  
Cognition and  
Reasoning  
(van Lambalgen)

[MoL-FGW]  
Philosophy of  
Cognition  
(Brouwer)

[MoL-FGW]  
Kant, Logic and  
Cognition  
(van Lambalgen)

[MoL-FGW]  
Causal Inference:  
Philosophical Theory  
and Modern Practice  
(Schulz)

# Master of Logic 2018/19

version: June 2018:

<https://github.com/cscaffner/MoLOverviewPoster>

Suggestions and comments are welcome!

Mandatory Courses of Tracks:  
L&P: Logic & Philosophy  
L&L: Logic & Language  
L&C: Logic & Computation  
L&M: Logic & Mathematics

## Cognition

[MScB&CS]  
Cognition and  
Language  
Development  
(Schaeffer)

[MoL-FNWI]  
Logical Methods in  
Cognitive Science  
(Szymanik)

[MScB&CS]  
Foundations of  
Neural and  
Cognitive Modelling  
(Zuidema)

[MoL-FNWI]  
Computational  
Semantics and  
Pragmatics  
(Fernandez)

[MScB&CS]  
Cognitive Models of  
Language and  
Music  
(Lentz)

[MScB&CS]  
How Music Works:  
Music Cognition  
(Honing)

[MoL-FNWI]  
Computational  
Social Choice  
(Endriss)

[MoL-FNWI]  
Game Theory  
(Endriss)

## Economic Theory

## Computational Linguistics / AI

[MScAI]  
Natural Language  
Processing 1  
(Shutova)

[MScAI]  
Natural Language  
Processing 2  
(Sima'an)

[MScAI]  
Statistical Methods  
for Natural  
Language Semantics  
(Shutova)

[MScB&CS]  
Seminar Combining  
Symbolic and  
Statistical Methods  
in AI  
(van Harmelen)

[MastMath]  
Machine Learning  
Theory  
(Koolen, Grünwald,  
de Heide) [8EC]

## Mathematical Logic

### L&M

[MastMath-UvA]  
Set Theory  
(Hart, Löwe)  
[8EC]

[MoL-FNWI]  
Mathematical  
Structures in Logic  
(Bezhanishvili)

### L&M

[MoL-FNWI]  
Proof Theory  
(van den Berg)

### L&M

[MastMath]  
Model Theory  
(Venema)  
[8EC]

[MastMath-Utrecht]  
Category Theory and  
Topos Theory  
(van Oosten) [8EC]  
in 2019/20 only

[MastMath-Utrecht]  
Topos Theory  
(van Oosten)  
[8EC]

[MoL-FNWI]  
Category Theory  
(van den Berg)

[MoL-FNWI]  
Seminar  
Mathematical Logic  
(Löwe, Galeotti)  
[3EC]

[MoL-FNWI]  
Homotopy Type  
Theory  
(van den Berg)  
in 2019/20 only

[MScCS]  
Protocol Validation  
(Ponse)

[MoL-FNWI]  
Recursion Theory  
(Rodenburg)

[MoL-FNWI]  
Lambda Calculus  
(Rodenburg)

[MScCS]  
Concurrency Theory  
(Ponse)

[MScCS-VU]  
Logical Verification  
(TBC)

[MoL-FNWI]  
Computability  
and Interaction  
(Baeten)

[MoL-FNWI]  
Kolmogorov  
Complexity  
(Torenvliet)

[MScCS-VU]  
Distributed  
Algorithms  
(Fokkink)

[MastMath]  
Quantum  
Information Theory  
(Walter and Ozols)  
[8EC]

[MScCS-VU]  
Term Rewriting  
Systems  
(Endrullis)

[MastMath-UvA]  
Quantum computing  
(de Wolf)  
[8EC]

**L&C**  
[MoL-FNWI]  
Information Theory  
(Schaffner)

**L&C**  
[MoL-FNWI]  
Computational  
Complexity  
(de Haan, Torenvliet)

[MoL-FNWI]  
Basic Probability:  
Programming  
(Dotlacil)  
[3EC]

[MoL-FNWI]  
Basic Probability:  
Theory  
(Cremers)  
[3EC]

## Theoretical Computer Science