

Sep/Oct 2019

Nov/Dec 2019

Feb/Mar 2020

Apr/May 2020

not in 2019/20

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

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

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

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

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

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

## Philosophy

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

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

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

[MoL-FGW]  
Philosophy of  
Cognition  
(Brouwer)

## Philosophical Logic

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

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

[MoL-FGW]  
Logic and  
Philosophy  
(Betti)

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

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

[MoL-FGW]  
Philosophy of  
Mathematics  
(Incurvati)

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

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

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

[MoL-FGW]  
Time  
(van Lambalgen)

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

[MoL-FNWI]  
Dynamic Epistemic  
Logic  
(Baltag)

## Theoretical Linguistics

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

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

**L&M, L&C**  
[BScWisk]  
Introduction to  
Modal Logic  
(Bezhanishvili)

[MoL-FNWI]  
Topics in  
Modal Logic  
(Venema)

**Mathematical  
Logic**

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

[MastMath]  
Category Theory and  
Topos Theory  
(van den Berg) [8EC]

**L&M**  
[MoL-FNWI]  
Proof Theory  
(van den Berg)

**L&M**  
[MoL-FNWI]  
Model Theory  
(Venema)

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

[MScCS-VU]  
Protocol Validation  
(Ponse)

[MoL-FNWI]  
Logic, Games and  
Automata  
(Afshari)

[MoL-FNWI]  
Lambda Calculus  
(Rodenburg)

[MScCS]  
Concurrency Theory  
(Ponse)

[MScCS-VU]  
Homotopy Type  
Theory  
(van den Berg)

[MoL-FNWI]  
Logical Verification  
(Blanchette)

[MScCS-VU]  
Distributed  
Algorithms  
(Fokkink)

[MoL-FNWI]  
Recursion Theory  
(Rodenburg)

## Game Theory & Social Choice

[MoL-FNWI]  
Game Theory  
(Endriss)

[MoL-FNWI]  
Computational  
Social Choice  
(Endriss)

[MoL-FNWI]  
Symbolic Systems 1  
(TBA)

[MoL-FNWI]  
Kolmogorov  
Complexity  
(Torenvliet)

[MScCS-VU]  
Term Rewriting  
Systems  
(Endrullis)

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

[MScCS-VU]  
Quantum  
Information Theory  
(Walter and Ozols)  
[8EC]

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

[MScCS-VU]  
Computability and  
Interaction  
(Baeten)

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

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

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

## Cognition

# Master of Logic 2019/20

version: 13 May 2019:  
<https://github.com/cschaaffner/MoLOverviewPoster>

Suggestions and comments are welcome!

## Computational Linguistics / AI

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

[MScAI]  
Natural Language  
Processing 1  
(Shutova)

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

[MoL-FNWI]  
Advanced Topics in  
Computational  
Semantics  
(Shutova)

[MScAI]  
Deep Learning for  
Natural Language  
Processing  
(Monz, Aziz)

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

[MoL-FNWI]  
Computability and  
Interaction  
(Baeten)

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

## Theoretical Computer Science