Master of Logic 2025/26

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Suggestions and comments are welcome!

1: Sep/Oct 2025
2: Nov/Dec 2025
4: Feb/Mar 2026
5: Apr/May 2026
not in 2025/26

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

Philosophy

- 1: [MoL-FGW] Introduction to the Philosophy of Language (Brouwer)
- 2: [MoL-FGW] Power, Speech and Conceptual Engineering (Mikkola)
- 1: [MSc-PH] Philosophy of Science (De Haro)
- 2: [MoL-FGW] Ontology: Historical Perspectives (Skirke)
- 2: [MoL-FGW] Philosophy of Cognition (Sbardolini)
- 4: [MoL-FGW] Data-driven History of Ideas (Betti)
- 1: [MoL-FGW] Philosophy of AI (Schoonen)

Philosophical Logic

- all: 1+2: Logic, Language and Computation (Bezhanishvili) [3EC]
- all: 1: [MoL-FNWI] Mathematical Proof Methods for Logic (Sbardolinii)
- 4: [MoL-FGW] Philosophy of Mathematics (Incurvati)
- L&P: 2: [MoL-FNWI] Philosophical Logic (Degano)
- 2: [MoL-FGW] Philosophy of Logic (Schindler)
- 1: [MoL-FGW] Rationality, Cog-nition and Reasoning (Krzyzanowska)
- 4: [MoL-FNWI] Topics in Formal Epistemology (Özgün)
- 4: [MoL-FGW] Semantics and Philosophy (Aloni, Incurvati)
- L&P L&L: 1: [MoL-FGW] Meaning, Reference and Modality (Schoonen)
- [MoL-FNWI] Causal Inference (Schulz)
- 4: [MoL-FNWI] Topology, Logic and Learning (Baltag)
- 4: [MoL-FNWI] Dynamic Epistemic Logic (Baltag)
- L&L: 5: [MoL-FNWI] Structures for Semantics (Aloni)
- 2: [MoL-FNWI] Logic and Conversation (Roelofsen)

Cognition

- 2: [MSc B&CS] Cognition and Language Development (Schaeffer)
- [MoL-FGW] Semantics and Cognition (TBA)
- [MoL-FNWI] Computational Dialogue Modelling (Fernandez)

Computational Linguistics / AI

- 2: [MScB&CS] Foundations of Neural and Cognitive Modelling (Zuidema)
- 1: [MSc B&CS] Advanced Neural and Cognitive Modelling (Garrido Alhama)
- 6 (in June): [MScAI] Interpretability and Explainability in AI (Zuidema)
- 4: [MScB&CS] How Music Works: Music Cognition (Honing)
- 1:[MoL-FNWI] Basic Probability: Theory (Fontaine) [3EC]
- 2:[MoL-FNWI] Introduction to Python for Data Processing (Fontaine) [3EC]
- 2: [MScAI] Natural Language Processing 1 (Shutova)
- 5: [MScAI] Natural Language Processing 2 (Sima'an)
- 5: [MoL-FNWI] Advanced Topics in Computational Semantics (Fernandez)
- 2: [MScAI] Deep Learning 1 (Mettes)
- 1: [MoL-FNWI] Machine Learning and Language Models (Lewis)
- 4+5: [MastMath] Machine Learning Theory (van Erven) [8EC]
- 2: [Mol-FNWI] Logic, Data Examples, and Computational Learning Theory (ten Cate)

Theoretical Linguistics

- 1: [RM-Ling] Syntax-Semantics Interface 1 (Aboh)
- 4: [RM-Ling] Syntax-Semantics Interface 2 (Aboh)

Game Theory, Economics & Social Choice

- 5: [MoL-FNWI] Game Theory (Endriss)
- 2: [MoL-FNWI] Computational Social Choice (Endriss)
- 1+2: [MoL-FNWI] Seminar Economics and Computation (Reiffenhäuser)
- 1: [MoL-FNWI] Algorithmic Game Theory (Schäfer)

Mathematical Logic

- L&L, L&C: 1+2: [BScWisk] Introduction to Modal Logic (Bezhanishvili)
- 2: [MoL-FNWI] Topics in Modal Logic (Venema)
- 4: [MoL-FNWI] Mathematical Structures in Logic (Bezhanishvili)
- 5: [MoL-FNWI] Logic, Games and Automata (Venema)
- 1+2: [MastMath] Category Theory (van den Berg) [8EC]
- L&M: 1: [MoL-FNWI] Rudiments of Axiomatic Set Theory (Block-Gorman)
- 4+5: [MoL-FNWI] Seminar Mathematical Logic (ten Cate) [3EC]
- L&M: 2: [MoL-FNWI] Proof Theory (Girlando)
- 5: [MoL-FNWI] Type Theory (van den Berg)
- L&M: 5: [MoL-FNWI] Model Theory (Block-Gorman)
- 4+5: [MastMath] Homotopy Type Theory (North) [8EC]
- 1: [MoL-FNWI] Recursion Theory (de Haan)

Theoretical Computer Science

- 5: [MoL-FNWI] Automated Planning (Behnke)
- 4: [MoL-FNWI] Functional Programming (Gattinger)
- 2: [MScCS-VU] Logical Verification (TBA)
- 2: [MSc B&CS] Advanced Algorithms (Reiffenhäuser)
- 4: [MoL-FNWI] Logical Foundations of Quantum Mechanics (Smets)
- L&C: 5: [MoL-FNWI] Computational Complexity (de Haan)
- 4: [MScAI] Knowledge Representation and Reasoning (de Haan)
- L&C: 2: [MoL-FNWI] Information Theory (Resch)
- 4: [MScCS-VU] Term Rewriting Systems (Endrullis)
- 5: [MScCS-VU] Distributed Algorithms (TBA)

Quantum

- 1+2: [MastMath] Quantum Information Theory (Ozols) [8EC]
- 1+2: [MastMath] Quantum Computing (de Wolf) [8EC]
- 4: [MScQCS-FNWI] Full-Stack Quantum Computing (van de Wetering)
- 5: [MScQCS-FNWI] Quantum Cryptography (Speelman)