

- 1: Sep/Oct 2024
- 2: Nov/Dec 2024
- 4: Feb/Mar 2025
- 5: Apr/May 2025
- not in 2024/25

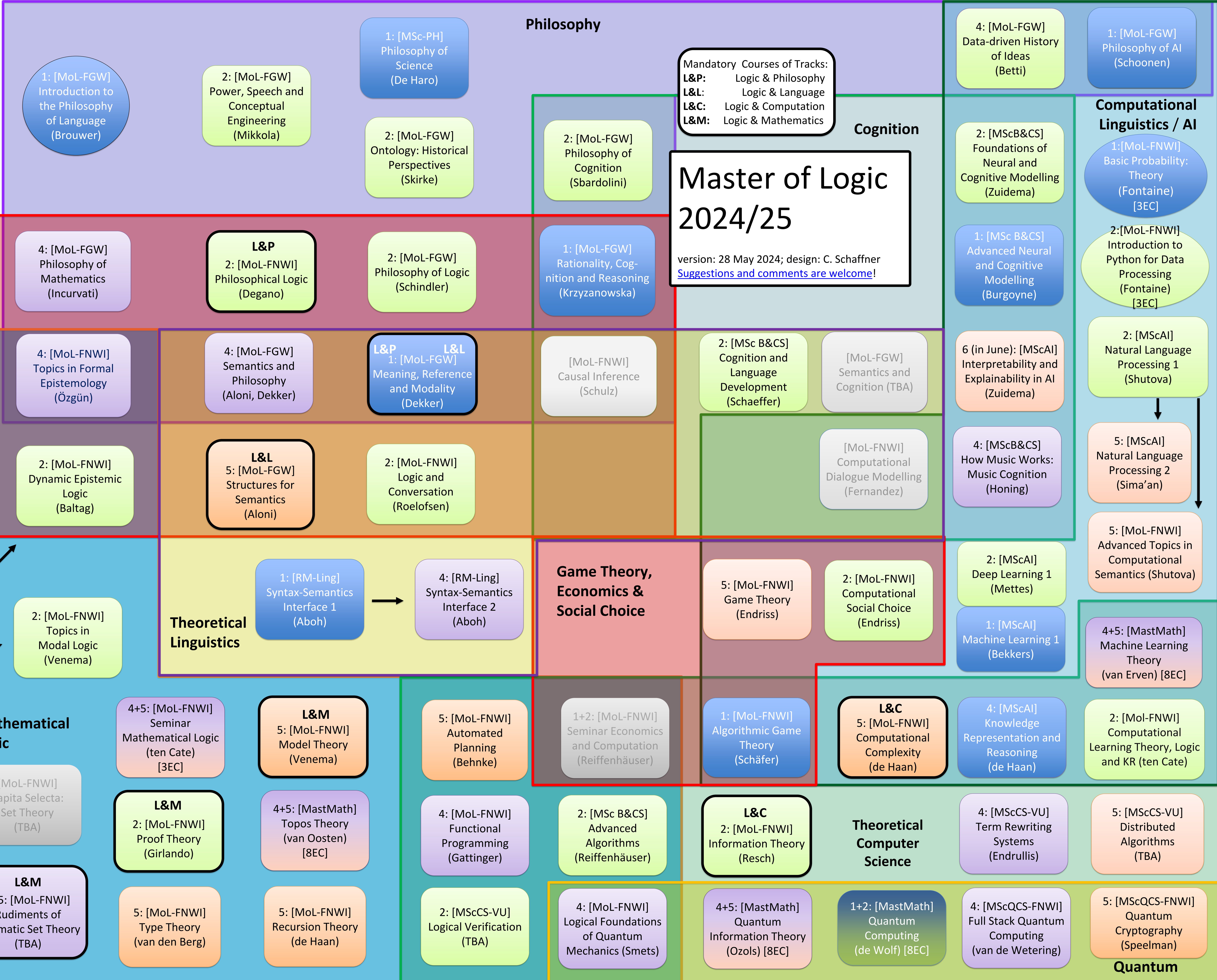
**all**  
1+2: Logic, Language and Computation (Dekker) [3EC]

**Philosophical Logic**  
**all**  
1: [MoL-FNWI] Mathematical Proof Methods for Logic (Incurvati)

**L&M, L&C**  
1+2: [BScWisk] Introduction to Modal Logic (Bezhanishvili)

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

1+2: [MastMath] Category Theory (van den Berg) [8EC]



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

**Master of Logic 2024/25**  
 version: 28 May 2024; design: C. Schaffner  
[Suggestions and comments are welcome!](#)

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)

**Computational Linguistics / AI**

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 (Shutova)

4+5: [MastMath] Machine Learning Theory (van Erven) [8EC]

2: [MoL-FNWI] Computational Learning Theory, Logic and KR (ten Cate)

5: [MScCS-VU] Distributed Algorithms (TBA)

5: [MScQCS-FNWI] Quantum Cryptography (Speelman)

**Quantum**

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, Cognition and Reasoning (Krzyzanowska)

4: [MoL-FNWI] Topics in Formal Epistemology (Özgün)

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

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

[MoL-FNWI] Causal Inference (Schulz)

2: [MSc B&CS] Cognition and Language Development (Schaeffer)

[MoL-FGW] Semantics and Cognition (TBA)

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

1: [MSc B&CS] Advanced Neural and Cognitive Modelling (Burgoyne)

6 (in June): [MScAI] Interpretability and Explainability in AI (Zuidema)

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

2: [MScAI] Deep Learning 1 (Mettes)

1: [MScAI] Machine Learning 1 (Bekkers)

4: [MScCS-VU] Knowledge Representation and Reasoning (de Haan)

4: [MScQCS-FNWI] Full Stack Quantum Computing (van de Wetering)

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

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

2: [MoL-FNWI] Logic and Conversation (Roelofsen)

[MoL-FNWI] Computational Dialogue Modelling (Fernandez)

2: [MSc B&CS] Cognition and Language Development (Schaeffer)

[MoL-FNWI] Computational Dialogue Modelling (Fernandez)

2: [MScAI] Deep Learning 1 (Mettes)

1: [MScAI] Machine Learning 1 (Bekkers)

4: [MScCS-VU] Knowledge Representation and Reasoning (de Haan)

4: [MScCS-VU] Term Rewriting Systems (Endrullis)

4: [MScQCS-FNWI] Full Stack Quantum Computing (van de Wetering)

**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)

**Mathematical Logic**

[MoL-FNWI] Capita Selecta: Set Theory (TBA)

**L&M**  
4+5: [MoL-FNWI] Rudiments of Axiomatic Set Theory (TBA)

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 (Venema)

4+5: [MastMath] Topos Theory (van Oosten) [8EC]

5: [MoL-FNWI] Recursion Theory (de Haan)

5: [MoL-FNWI] Automated Planning (Behnke)

4: [MoL-FNWI] Functional Programming (Gattinger)

2: [MScCS-VU] Logical Verification (TBA)

1+2: [MoL-FNWI] Seminar Economics and Computation (Reiffenhäuser)

2: [MSc B&CS] Advanced Algorithms (Reiffenhäuser)

4: [MoL-FNWI] Logical Foundations of Quantum Mechanics (Smets)

1: [MoL-FNWI] Algorithmic Game Theory (Schäfer)

**L&C**  
2: [MoL-FNWI] Information Theory (Resch)

4+5: [MastMath] Quantum Information Theory (Ozols) [8EC]

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

**Theoretical Computer Science**

1+2: [MastMath] Quantum Computing (de Wolf) [8EC]

4: [MScAI] Knowledge Representation and Reasoning (de Haan)

4: [MScCS-VU] Term Rewriting Systems (Endrullis)

4: [MScQCS-FNWI] Full Stack Quantum Computing (van de Wetering)

2: [MoL-FNWI] Computational Learning Theory, Logic and KR (ten Cate)

5: [MScCS-VU] Distributed Algorithms (TBA)

5: [MScQCS-FNWI] Quantum Cryptography (Speelman)

**Quantum**