

International Master in Data Analytics Welcome Back to Winter Term 2025/26

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Outline

1. Study Progress

2. Course Feedback, Exams and Retakes

3. Courses Current Term

Outline



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1. Study Progress

2. Course Feedback, Exams and Retakes

3 Courses Current Term

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Study Progress

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Table: Study Progress

Starting Term	Coming Term	Started	Remaining
W25/26	1	20	20
S25	2	53	53
W24/25	3	16	16
S24	4	23	19
W23/24	5	34	30
S23	6	21	21
W22/22	7	40	26
S22	8	26	17
≥W21/22	>8	_	26

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Retakes for Courses

- ▶ 12 students failed the ML2 exam last semester
 - ▶ 3 students failed after the second take
- ▶ 25 students failed the BDA exam
- ▶ Unlimited Exam Attempts: Students can now take exams an unlimited number of times for each course. There will no longer be a cap on the number of exam attempts allowed.
- ➤ Transcript of Records: Every exam attempt will be recorded on the student's final transcript. The number of attempts for each course will be visible on the official transcript upon completion of studies.

Outline



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Courses First Year (Summer Start 2025)

1st Term

Nr	Module	Туре	CPs
M5	Big Data Analytics	Lecture	6
M7	Data and Privacy Protection	Seminar	3
M8	Distributed Data Analytics	Lab	6
MS1	Methodological Specialization	Lecture	6
AM1	Application Module I	-	6

2nd Term

	Nr	Module	Туре	CPs
	M1	Machine Learning	Lecture	6
_	M2	Modern Optimization Techniques	Lecture	6
n	M3	Programming Machine Learning	Lab	6
	M10	Project (part I)	Project	3
	AM1	Application Module I	-	6



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Courses Second Year (Winter Start 2024/25)

	Nr	Module	Туре	CPs
3rd Term	M11	Planning and Optimal Control	Lecture	6
	MS1	Methodological Specialization	Lecture	6
	M9	Seminar Data Analytics II	Seminar	4
	M12	Project (part III)	Project	6
	AM2	Application Module II	-	6

4th Term M13 Seminar Data Analytics II Seminar 4		Nr Module		Type	CPs
M14 Master Thesis Thesis 30	4th Term		-		4 30

!! The Seminar Data Analytics II is offered 3 times, by three groups: ISMLL (Schmidt-Thieme) / Data Science (Landwehr) / Intelligent Assistive Systems (Roitberg)

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Courses Second Year (Summer Start 2024)

3rd Term

_	Nr	Module	Type	CPs
	M6	Advanced Machine Learning	Lecture	6
Μ	M4	Seminar Data Analytics II	Seminar	4
	M10	Project (part II)	Project	6

4th Term

	Nr	Module	Type	CPs
•	M11	Planning and Optimal Control	Lecture	6
m	M12	Project (part III)	Project	3
	M13	Seminar Data Analytics III	Seminar	4
	M14	Master Thesis	Project	24

as the 4th term may be too heavy, better plan for a 5th term (at least for 2 more months).



Master Thesis / General information

- ► The master thesis is the last step in your studies.
- ► You can write your thesis with any group teaching in the program.
 - ► Prof Schmidt-Thieme / Hanika (our group)
 - ► Prof Landwehr
 - ► Prof Roitberg
 - ► Group from Application Modules
- ► If you want to do your thesis in a group from the application modules (e.g. NLP), make sure to have taken the corresponding course

Master Thesis / Oberseminar



General procedure for students doing a thesis in our group:

- Register for the Oberseminar Learnweb Course:
 3117 Oberseminar: Maschinelles Lernen und Data Mining
- ► There you find **materials** and step-by-step **guide** on how to start the thesis
 - Link to available master thesis topics
 - ► Formal documents (proposal/thesis template, registration form, ...)
 - ► Information about the Oberseminar
- ► The Oberseminar...
 - ▶ is a colloquium for students currently involved in writing their thesis.
 - Attendance is mandatory for passing the Master thesis. Only exception:
 - ► Working at a company far away from Hildesheim.
 - ► We need a signed letter from the company.



Advice Courses This Term

- focus on the mandatory courses
 - esp. if you have other obligations such as
 - ► failed courses from 1st term to prepare (start to prepare them now)
- invest time into the project continuously
 - arrange regular meetings with your advisor



Elective Courses 1: Methodological Specialization

- ► to deepen your methodological understanding and widen the models and methods you command.
- ► Available in Winter25/26:
 - ▶ Machine Learning for IT Security (Landwehr) Winter
 - Multimodal Foundation Models (Roitberg) Winter
 - ► Further Course may be available. Please check LSF.
- ▶ you have to choose at least one course during your program (6 CP)
 - marks of just one course count to your final degree

Elective Courses 2: Application

- currently from 6 areas:
 - Computer Science / Software Engineering
 - Business Administration and Information Systems
 - ► Information Retrieval and Information Sciences
 - ► Natural Language Processing
 - Environmental Sciences
- Not all courses are available every semester.
- ▶ you have to choose courses worth at least 12 CP from **one** area
 - e.g., two lectures with tutorials
 - marks of courses worth 12 CP count to your degree
 - You can earn up to 6 credits from Soft Skills (Deutschkurs).



Welcome Back to the International Master in Data Analytics!

We wish you successful continuation of your studies!