






Natural Language Processing (M.Sc., Master Degree Programme)

Study plan | Start in winter term

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Note: The following overview offers a non-binding overview of the structure and composition of the modules. The legally binding criteria is available in the examination regulations.

Module code	Module title (Compulsory/Elective)	Sem.	CP	Type	hours	Course title	Assessment	Module Convenor	Comment/ Language
1. Semester (Wi)									
■ MA2NLP2001	Machine Learning for Natural Language Understanding (P)	Wi	10	V	2	Machine Learning for Natural Language Understanding		Rettinger	English
				Ü	1	Machine Learning for Natural Language Understanding			
				S	2	Trends in Machine Learning			
				Written exam (90 min.) or Oral exam (20 min.) and Written paper					
■	Preparation Courses (WP)	Wi	20	A total of 20 credit points from the list of the <i>Elective Modules Preparation Course</i> must be completed.					
2. Semester (Su)									
■ MA2NLP2002	Natural Language Processing (P)	Su	10	V	2	Natural Language Processing		Werner	English
				Ü	1	Natural Language Processing			
				S	2	Trends in Natural Language Processing			
				Written exam (90 min.) or Oral exam (20 min.) and Written paper					
■ MA2NLP2003	Advanced Topics in Computational Text and Media Science (P)	Su	10	S	2	Advanced Topics in Computational Text and Media Science #1		Rettinger	English
				S	2	Advanced Topics in Computational Text and Media Science #2			
				Term paper					

	Elective Modules	Su	10	10 CP out of a total of 20 CP from the <i>Elective modules</i> or from the free electives for Master's degree programmes (cf. note 1) must be successfully completed.					
3. Semester (Wi) ^M									
 MA2NLP2004	Research Case Studies (P)	Wi	15	PRO	4	Project seminar		Rettinger	English
				Portfolio examination					
	Compulsory Elective Module Computer Science (WP)	Wi	5	A choice of 5 credit points from the <i>Elective Modules Computer Science</i> is to be chosen.					English/ German
	Elective Modules	Wi	10	10 CP out of a total of 20 CP from the <i>Elective modules</i> or from the free electives for Master's degree programmes (cf. note 1) must be successfully completed.					
4. Semester (Su)									
 MA2NLP3005	Master's Thesis (P)	Su	30			Master's Thesis			English
				Oral exam (30 Min.) and Master's Thesis					

^M Mobility window

Elective Modules „Preparation Course“ (20 CP to be chosen)									
■ MA4DSC1001	Elements of Mathematics (WP)	Wi	10	V	4	Elements of Mathematics		Schulz	English
				Ü	2	Elements of Mathematics			
				Written exam (120 min.)					
■ MA4DSC1002	Elements of Computer Science (WP)	Wi	10	EL	1	Elements of Computer Science		Schenkel	English
				Ü	3	Elements of Computer Science			
				Written exam (120 min.) and Written exam (90 min.)					
■ MA4DSC1003	Elements of Statistics (WP)	Wi	5	V+ Ü	2	Elements of Statistics		Münnich	English
				Exam (120 min.)					
■ MA4DSC1004	Statistical Programming with R (P)	Wi	5	V+ Ü	2	Statistical Programming with R		Münnich	English
				Portfolio examination					
■ MA2NLP3009	Elements of Linguistics (WP)	Wi	10	V	2	[LING 101V] Introduction to Linguistic Studies 1: Basic Concepts of Modern Descriptive Linguistics		Hoffmann	English
				S	2	[LING 301] Methods of Linguistic Text Analysis			
				Written exam (60 min.) and Oral exam (15 min.)					
■ BA2STM2004	Algorithmische Methoden (WP)	Wi	10	V	2	Algorithmische Methoden		Werner	Deutsch
				Ü	2	Algorithmische Methoden			
				Written exam (90 Min.) or Oral exam (20 min.)					

Elective Modules Computer Science (5 CP to be chosen)									
■ BA4WIN6008	Data Mining (WP)	Su	5	V	2	Data Mining		Bergmann	English
				Ü	1	Data Mining			
				Exam (90 min.)					
■ MA4DSC1008	Big Data Analytics (WP)	Su	5	V	2	Big Data Analytics		Schenkel	English
				Ü	1	Big Data Analytics			
				Written exam (120 min.) or Oral exam (15–30 min.)					
■ MA4INF3022	Informationsvisualisierung / Information Visualization (WP)	Su	5	V	2	Information Visualization		Diehl	English/ German
				Ü	1	Information Visualization			
				Written exam (120 min.) or Oral exam (15–30 min.)					
■ MA4INF3001	Digital Libraries und Grundlagen des Information Retrieval / Digital Libraries and Foundations of Information Retrieval (WP)	Wi	5	V	2	Digital Libraries and Foundations of Information Retrieval		Schenkel	English/ German
				Ü	1	Digital Libraries and Foundations of Information Retrieval			
				Written exam (120 min.) or Oral exam (15–30 min.)					
■ MA4WIN6010	Semantische Technologien / Semantic Technologies (WP)	Su	5	V	2	Semantic Technologies		Bergmann	English/ German
				Ü	1	Semantic Technologies			
				Portfolio examination					

Elective Modules (20 CP to be chosen)

Within the "Elective modules" it is possible to select the module below or modules from the University's list of [free elective modules for master's programmes](#).

■ MA2ELI3005	Applied Linguistics (P)	Wi	10	KOS	2	LING701 Special Topics in General Linguistics (WP)		Sand	English Two of the compulsory elective courses must be chosen.
				KOS	2	LING702 Special Topics in Applied Linguistics (WP)			
				KOS	2	LING703 Language History and Change (WP)			
				Term paper					
■	Free Elective Modules (WP)	Wi/ Su		Up to 20 CP from free electives for Master's degree programmes (cf. note 1) must be successfully completed.					

Note

(1) Modules of up to 10 CP may be completed from the competence area "Interdisciplinary Competences". Otherwise, modules from all competence areas and subjects may be selected without further restriction.

List of abbreviations

Compulsory attendance courses

EX	Field trip/Day Field trip	LAB	Lab/lab course	PRS	Practice-oriented seminar
GÜ	Field exercise	PRA	Internship	PRÜ	Practical course
KOS	Colloquium seminar	PRO	Project seminar	SPÜ	Language course

Non-compulsory attendance courses

EL	E-Learning-Course	LK	Reading course	TUT	Tutorium
FK	Specialized Course	OS	Advanced seminar	Ü	Practical course
HS	Master's-level seminar	PRP	Preparatory course	V	Lecture
KOL	Colloquium	PS	Bachelor's-level seminar	V+Ü	Lecture with practical course
K	Course	S	Seminar		

Other abbreviations

LP	Credit Points	SWS	Hours	WP	Elective module or course
P	Compulsory module	So	Summer term		
Sem	Semester	Wi	Winter term		