

M.S. in Computational Linguistics

Core requirements

Linguistics Core Specialization a. Morpho- syntax or b. Morpho- phonology	LING-L614 "Alternative Syntactic Theories" LING-L543 "Syntactic Analysis"; plus one of the following: LING-L544 "Morphological Analysis," LING-L546 "Semantics," or LING-L643 "Advanced Syntax" LING-L542 "Phonological Analysis"; plus either LING-L544 "Morphological Analysis" or LING-L642 "Advanced Phonological Description"	9 hrs
Computational Linguistics	LING-L545 "Computation and Linguistic Analysis", LING-L645 "Advanced Natural Language Processing", LING-L665 "Applying Machine Learning Techniques in Computational Linguistics" (new course), LING-L715 "Seminar in Computational Linguistics"	12 hrs
Computer Science	CSCI-A594 "Data Structures"	3 hrs
Total:		24 hrs

Electives (2 courses from the following lists)

Linguistics	LING-L520 "Sociolinguistics, LING-L541 "Introductory Phonetics," LING-L 542 "Phonological Analysis," LING-L 543 "Syntactic Analysis," LING-L 544 "Morphological Analysis," LING-L546 "Semantics," LING-L642 "Advanced Phonological Description," LING-L643 "Advanced Syntax," LING-L 7xx (Relevant seminars)	6 hrs
School of Informatics and Computing: Computer Science	CSCI-A590 Topics in Programming," CSCI-B401 "Introduction to Computing Theory," CSCI-B403 "Introduction to Algorithm Design and Analysis," CSCI-B555 "Machine Learning," CSCI-B651 "Natural Language Processing," CSCI-B659 "Topics in Artificial Intelligence"	
Informatics	INFO-I529 "Machine Learning in Bioinformatics," INFO-I 532 "Seminar in Bioinformatics," INFO-I534 "Seminar in Human-Computer Interaction"	
Library & Information Science	SLIS-S534 "Information Retrieval: Theory and Practice", SLIS-S543 "Computer-Mediated Communication," SLIS-S604 "Topics in Library and Information Science" (e.g., Information Networks, Metadata & Semantics), SLIS-S636 "Semantic Web," SLIS-S637 "Information Visualization", SLIS-S661 "Concepts and Contemporary Issues in Human-Computer Interaction"	
Cognitive Science	COGS-Q550 "Models in Cognitive Science"	
Total:		6 hrs

Language Requirement

Programming language	LING-L555 or equivalent programming course or knowledge approved by the department	3 hrs
Total:		3 hrs

Total: 33 hrs

Math and Logic Foundation (if necessary)

Statistics	STAT-S520 "Introduction to Statistics" (or equivalent) or equivalent approved by department	3 hrs
Logic	COGS-Q520 "Mathematics and Logic of Cognitive Science" or equivalent approved by dept.	3 hrs
Total:		6 hrs

Total: 33-39 hrs