COMPUTATIONAL LINGUISTICS (M.S.)

For details about this program, including program description, admission requirements, and contact information, click here (https://www.montclair.edu/graduate/programs-of-study/computational-linguistics-ms/).

Program Requirements

Code	Title	Credits
Foundation Courses		
Students with a background other than Linguistics or Computer Science will have to complete up to 7 credits of foundation courses.		0-7
APLN 500	Language and Linguistics	
CSIT 505	Python Programming	
Total Credits		**0-7**

Code	Title	Credits
Required Courses		
APLN 503	Speech Processing	3
or APLN 504	Syntax	
or APLN 505	Semantics and Pragmatics	
APLN 550	Computational Linguistics	3
APLN 551	Computational Linguistics II	3
APLN 607	Research Seminar (Course must be taken once per semester.)	0
AMAT 502	Applied Mathematics for Computational Science	4
CSIT 506	Data Structures with Python	4
CSIT 598	Machine Learning	3
Electives		
Complete at least 4 courses from the list below.		12
Culminating Experience		
APLN 606	Research Project in Natural Language Processing	3
or APLN 698	Master's Thesis	
Total Credits		**35**

Electives

Code	Title	Credits
APLN 502	Sociolinguistics	3
APLN 503	Speech Processing	3
APLN 504	Syntax	3
APLN 505	Semantics and Pragmatics	3
APLN 506	Phonetics and Phonology	3
APLN 507	Speech Prosody	3
APLN 510	Discourse Analysis	3
APLN 512	Cross-Cultural Discourse Analysis	3
APLN 518	Forensic Linguistics	3
APLN 520	Current Theories of Second Language Acquisition	3
APLN 525	Methodology of Teaching ESL	3
APLN 526	Computer-Assisted Language Instruction	3
APLN 528	Language Testing and Assessment	3
APLN 530	Language Policy and Language Planning	3
APLN 532	Language and Culture in Minority Education	3
APLN 534	Languages in Contact	3
APLN 536	Languages of the USA	3
APLN 552	Special Topics in Natural Language Processing	3
APLN 553	Text Analysis Tools	3
APLN 560	Translation Theory	3
APLN 563	Quantitative Linguistics	3
APLN 565	Lexicography	3
APLN 570	The Structure of American Sign Language	3
APLN 580	Corpus Linguistics	3
APLN 581	Linguistic Annotation	3
APLN 582	Language and Mobile Communication	3
APLN 590	Special Topics in Applied Linguistics	3
APLN 591	Cognitive Linguistics	3
APLN 594	Independent Study	1-3
APLN 596	Independent Study	1-3
CSIT 529	High-Performance Computing	3
CSIT 531	Robotics	3
CSIT 532	Introduction to Artificial Intelligence	3
CSIT 535	Human-Computer Interaction (HCI)	3
CSIT 547	Operating Systems	3
CSIT 548	Scalable Distributed Systems	3
CSIT 550	Text Management	3
CSIT 551	Mobile Computing	3
CSIT 552	Python for Data Science	3
CSIT 553	Exploratory Data Analysis and Visualization	3
CSIT 556	Introduction to Data Science	3
CSIT 557	Advanced Techniques in Data Science	3
CSIT 558	Data Mining	3
CSIT 574	Image Processing	3
CSIT 595	Special Topics in Computer Science	3
CSIT 599	Deep Learning	3
CSIT 696	Research Methods in Computing	3
STAT 538	Regression Methods	3

Recommended Roadmap to Degree Completion

This plan is provided as an outline for students to complete their degree requirements within two years. This plan is a recommendation only and students should meet with their Graduate Advisor to develop a more individualized plan to complete their degree.

First Year

Fall	Credits	Spring	Credits
AMAT 502	4	CSIT 506	4
APLN 503, 504, or 505	3	APLN 551	3
APLN 550	3	APLN 607	0
APLN 607	0		
	10		**7**

Second Year

Fall	Credits	Spring	Credits
CSIT 598	3	APLN/CSIT Elective	3
APLN/CSIT Elective	3	APLN 606 or 698	3

APLN/CSIT Elective	3 APLN 607	0
APLN 607	0	
	9	**6**

Total Credits 32