COMPUTATIONAL LINGUISTICS - MASTER OF SCIENCE (MS)

The computational linguistics, analytics, search and informatics (CLASIC) program provides a solid foundation in both computer science and linguistics graduate course work, as well as several courses focused on data-driven linguistics, computational linguistics and information processing.

For more information, visit the Computational Linguistics (CLASIC) MS (https://www.colorado.edu/linguistics/current-students/graduates/computational-linguistics-clasic-ms) page.

Distance Education Option

Students can take individual courses toward a master’s degree or graduate certificate through distance education (online). For more information, connect with the graduate program advisor or visit the Graduate School’s Distance Education (https://www.colorado.edu/graduateschool/distance-education) webpage.

Requirements

Students must complete at least 32 hours of approved graduate study, including a 2-credit capstone course focused on a publishable research project, which will run in conjunction with an internship or CU-based research project. As part of the capstone, students will be evaluated by their employer or industry project manager. Students will also prepare a technical report on the completed project that the program directors and project leader will jointly evaluate.

Required Courses and Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 5030</td>
<td>Linguistic Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>LING 5420</td>
<td>Morphology and Syntax</td>
<td>3</td>
</tr>
<tr>
<td>or LING 6450</td>
<td>Syntactic Analysis</td>
<td></td>
</tr>
<tr>
<td>LING 5430</td>
<td>Semantics and Pragmatics</td>
<td>3</td>
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Core Computer Science Courses

Choose three of the following: 9

- CSCI 5417 Information Retrieval Systems
- or CSCI 5817 Database Systems
- CSCI 5444 Introduction to Theory of Computation
- or CSCI 5714 Formal Languages
- CSCI 5535 Fundamental Concepts of Programming Languages
- CSCI 5606 Principles of Numerical Computation
- or CSCI 5644 Numerical Linear Algebra
- CSCI 5839 User-Centered Design and Development 1

CLASIC Core

- CSCI/LING 5832 Natural Language Processing 3
- CSCI 7000/ LING 7800 Current Topics in Computer Science (Computational Lexical Semantics) 4

CSCI 7000/ LING 7800 Current Topics in Computer Science (Capstone Project) 2

Choose one of the following: 3

- LING 6520 Topics in Comparative Linguistics (Computational Grammars)
- CSCI 6302 Speech Recognition and Synthesis
- LING 6300/3800 Topics in Language Use (Formal Models of Linguistics)
- LING 7800 Open Topics in Linguistics (Computational Phonology and Morphology)
- CSCI 7222 Topics in Nonsymbolic Artificial Intelligence (Representation Learning for Language)

Total Credit Hours 30