Professional Master’s Degree in Computational Linguistics

Be driven. Be flexible. Be successful.
Grow your expertise. Advance your career.

The computational linguistics, analytics, search and informatics master’s degree is an interdisciplinary degree that provides a solid foundation in both computer science and linguistics graduate coursework, as well as several courses focused on data-driven linguistics, computational linguistics and information processing.

The University of Colorado Boulder is a Tier 1 research university, and its College of Engineering and Applied Science is consistently ranked among the top 40 engineering graduate schools in the nation by U.S. News & World Report. The linguistics department is ranked in the top 13.

This program offers classes both online and on-campus. Depending on the course, students may have the opportunity to choose to take the course from the comfort of their home while still engaging with their peers through an online platform. This is not a totally distance education program.

You don’t have to wait! Enroll in a class now to start earning credits and get to know students and faculty while preparing your graduate admission materials. You may enroll in classes as a non-degree student through the Access Program, 303-492-5148, https://ce.colorado.edu/programs/access/.

Admission requirements

- Undergraduate degree in computer science, linguistics, math or science from an accredited institution comparable to the University of Colorado
- Minimum GPA of 3.00
- TOEFL scores (international students)
- Three letters of recommendation
- Three semesters of mathematics at the upper-division level of calculus or above
- Considerable programming experience

Recommended: Four semesters or more of computer science courses beyond the introductory level, including Data Structures, Programming Languages and Algorithms One or more of these: morphology, semantics, or formal semantics

GRE Scores: The GRE is required for all applicants. For international applicants the GRE is required in addition to the TOEFL or IELTS

Application Deadline:

- Fall admission only
- December 15 International; January 15 Domestic

Learn more at: colorado.edu/graduateschool/computational-linguistics-analytics-search-and-informatics
**Focus areas**

- 6 credit hours in computer science covering programming and machine learning
- 9 credit hours in linguistics covering syntax, phonetics, semantics and pragmatics
- 9 credit hours in computational linguistics covering natural language processing, computational lexical semantics, computational phonology and morphology
- 6 credit hours of electives in information retrieval, formal semantics and more
- 2 credit hours Capstone Project - internship or CU-based research

**Completion**

- The MS is 32 credit hours and may be completed in 24 to 48 months.
- Most courses are 3 credits, are 16 weeks long and must be taken during the fall, spring or summer academic terms.

**Value to you.**

**Become** a specialist in the application of computers to the processing of natural languages such as English, Chinese, Arabic and Urdu.

**Gain** the skills needed to run and retrain off-the-shelf NLP tools, modifying them as needed.

**Take** validated machine learning approaches, including deep learning, with or without linguistic annotation as training data, and extend them to new domains and new genres, as well as new linguistic phenomena using appropriate evaluation methodologies.

**Apply** analyses from phonological, morphological, syntactic and semantic theories to innovative applications of NLP technology.

**Present** results professionally in both written and oral form in a manner that is accessible to an interdisciplinary audience.

**Learn and work** with world-class faculty, such as Martha Palmer, an ACL fellow known for her work in semantics and linguistic annotation; Jim Martin, who, along with Dan Jurafsky, wrote the textbook *Speech and Language Processing*, the premier text in the field; and Chenzhao Tan, Susan Windisch Brown and Mans Hulden.

Learn more at: colorado.edu/graduateschool/computational-linguistics-analytics-search-and-informatics
Join us!

Want to learn more? Get started:

VISIT: colorado.edu/graduateschool/computational-linguistics-analytics-search-and-informatics

CALL: 303-492-6331

EMAIL: cugrad@colorado.edu

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