DEPARTMENT OF LINGUISTICS
THE UNIVERSITY OF UTAH

SCHOOL OF COMPUTING
UNIVERSITY OF UTAH

Computational Linguistics Certificate

Effective Fall 2020

This undergraduate certificate is designed to help students acquire the knowledge and skills necessary to pursue a career path in an area of technology known alternatively as Computational Linguistics and Natural Language Processing (NLP). This is the science behind machine translation, text-to-speech, speech recognition, and many other important applications.

Required Courses 9 courses (27 credit hours):

1. LING 1200: Intro to the Study of Language -OR- LING 1069: Bad Words and Taboo Terms
2. CS 1410: Intro to Object-Oriented Programming [1] -OR- CS 1420: Accelerated Object-Oriented Programming
3. CS 2420: Intro to Algorithms & Data Structures
4. CS 3100: Models of Computation[2]
5. CS 3500: Software Practice
   LING 5030: Semantics -OR- LING 5190: Psycholinguistics
6. LING 4010: Intro to Phonetics and Phonology -OR- LING 4020: Intro to Syntax -OR-
7. LING 3300: Computers and Language -OR- CS 3505: Software Practice II
8. CS 5340: Natural Language Processing
9. LING 5300: Computational Linguistics

For advising, please contact:

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[1] CS 1410 has the following chain of prerequisites, some of which may be waived by passing a screening test: MATH 1050 College Algebra, MATH 1060 Trigonometry, CS 1030 Foundations of Computer Science, and CS 1210 Calculus 1.
[2] CS 3100 has a prerequisite of CS 2100 Discrete Structures, which may be waived by demonstrating knowledge of finite-state machines.