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]

3. CS 2420: Intro to Algorithms & Data Structures

4. CS 3100: Models of Computation[2]

5. CS 3500: Software Practice

6. LING 4010: Intro to Phonetics and Phonology -OR- LING 4020: Intro to Syntax -OR- LING 5030: Semantics -OR- LING 5190: Psycholinguistics

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.