

Course Content

The course is divided into a two-hour class and a one-hour class.

The two hour class follows a typical lecture structure. Its content consists of material found in the textbook. There will be an introductory lecture and then 13 lectures covering the following topics, each lasting approximately two hours.

- Topic 1. Finite state automata
- Topic 2. Finite state transducers
- Topic 3. N-grams - Word sequences
- Topic 4. POS tagging and Hidden Markov Models
- Topic 5. Grammars
- Topic 6. Parsing
- Topic 7. More parsing (including statistical parsing)
- Topic 8. Semantics and Computational Semantics
- Topic 9. Lexical Semantics and Computational Lexical Semantics
- Topic 10. Discourse
- Topic 11. Information Extraction and Question Answering

Students are responsible for the readings on the Moodle.

The one-hour classes will be used to introduce software tools and to build software.

Project/Paper

Presentation

The student will give a presentation to the class about his/her project/analysis/research paper. The presentation is to be no more than 25 minutes, followed by 5 minutes for questions. If a project/analysis is done the presentation should consist of the background material used for the project/analysis (even if it repeats some of the material already seen in lectures) and either the final results or the current state of the project/analysis together with what needs to still be accomplished. Part of the presentation should provide some discussion of why the results are what they are and if work still needs to be done, a speculative discussion of what is expected in the results and why.

The presentation will be judged on how well you present your topic (not on the results or current state of the work). Specifically, are the slides appropriate, and is the topic explained well for the audience.

Student Evaluation

Project/Paper: 65%

Presentation: 25%

Class participation: 10%

Project/Paper Schedule

The presentation will be in the week following classes (11 April 2017 and 13 April 2017).

The project/paper is due on 30 April 2017.