
CSci 5541: Natural Language Processing

Course Info (Session 1)

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CSci 5541: Course Outline

Topics: (lower-level) speech and (higher-level) text processing –

- **Speech processing:**

- *Write a speech recognizer*
identify basic speech sounds in a recording
- Phonology
- Fourier Analysis
- Probabilistic Modeling
- HMMs
- DBNs

- **Speech/text processing:**

- *Write a relation extractor*
identify simple predicates asserted by text
- Syntax
- Probabilistic Parsing
- Semantics (Meaning)
- Relation Extraction
- Semantics in Continuous Domains

CSci 5541: Course Outline

Course technology:

- **WEB PAGE:** slides, handouts, assignments, solutions –
<http://www-users.itlabs.umn.edu/classes/Fall-2007/csci5541>
- All assignments will be done in **C++** using our template library.
- Assignments use electronic **SUBMIT** tool (on home page).
- On-line grades (on home page): **GRIT**
- On-line message board (on home page): **PHORUM**

CSci 5541: Course Outline

Course requirements:

- **5 Homeworks:** 25% / 5
(in C++, using our Random Variable Template Library 'RVTL')
- **2 Midterm Exams:** 40% / 2
(1: speech processing, 2: text processing)
- **1 Final Project:** 35%
(e.g. implement & evaluate speech/text processor)

Try to submit assignments by Thurs. night, but deadline is Friday NOON.
(We'll be here to help Friday morning.)

Solutions will be posted shortly after submit deadline.

That means late assignments **CANNOT BE ACCEPTED!**

CSci 5541: First Assignment

Homework zero: get lab account, run perl, use submit tool –

1. Download [rvtl.tar.gz](#) from course home page.
2. Run test program (as described in README) on test recording.
3. Submit the result using the submit tool.

Due next Friday.

Worth no points, but is a course requirement.

We will accept late excuses . . . this time.