



COURSE OUTLINE

COURSE TITLE **COMPUTER SCIENCE 4310/5310/7310 A Spring 2020**
Natural Language Processing (NLP)

INSTRUCTOR Y. CHALI Office: D514
chali@cs.uleth.ca

LECTURES

Day	Time	Room
Tuesday	13:40 - 14:55	C674
Thursday	13:40 - 14:55	C674

OFFICE HOURS

Day	Time	Room
Wednesday	14:00 - 16:00	D514

COURSE MATERIALS <http://moodle.uleth.ca>

TEXTBOOK *Speech and Language Processing*
by Daniel Jurafsky & James H. Martin

EVALUATION METHOD	Assignments (4)	25%
	Midterm Examination	35%
	Final Examination	40%

PREREQUISITES Fourth year standing and one of the
CPSC 3750 or CPSC 3630 or CPSC 3620

GRADE DISTRIBUTION

As an indication, the final grades are usually distributed as follows:

$97 \leq A+ \leq 100$	$92 \leq A < 97$	$87 \leq A- < 92$
$83 \leq B+ < 87$	$78 \leq B < 83$	$73 \leq B- < 78$
$69 \leq C+ < 73$	$65 \leq C < 69$	$60 \leq C- < 65$
$55 \leq D+ < 60$	$50 \leq D < 55$	$0 \leq F < 50$

COURSE OBJECTIVES

Human language technology has emerged as an industry reaching billions of people, with web search engines, machine translation, question answering, and text summarization available on the Internet, and speech recognition becoming popular on desktop and mobile computers. Natural Language Processing (NLP) is concerned with the study of concepts, models, and algorithms to understand, interpret, generate and learn human language, as well as applications of NLP. In this course, we will learn various models for processing, understanding and generating human language. These models may be knowledge-based (i.e., handcrafted) or data-driven (i.e., statistical and empirical). Also, we will learn the tools, techniques and methodologies that allow us to build these models.

TOPICS

We will cover the material in the text from chapter 1 to chapter 8, and from chapter 12 to chapter 14, as time permits.

IMPORTANT NOTICES

- This is a graduate course. However, the undergraduate students can take it given they fulfil the prerequisite requirements.
- The midterm examination will be held in class on Thursday, February 13th, 2020.
- The final examination is scheduled by the Registrar's office after the extended drop period.
- No late assignment is accepted without prior agreement from the instructor.
- All of the students are subject to the student discipline policy for academic and non-academic offences in accordance with the University Calendar and policies.