

CS 546 Deep Natural Language Processing

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	Office Hours	TBA		
Time and Place	Lecture Hours	Monday 09:40-10:30 Tuesday 08:40-10:30		
Course Materials	Mandatory	-		
	Recommended	Neural Network Methods for Natural Language Processing by Yoav Goldberg Deep Learning by Ian Goodfellow, Yoshua Bengio and Aaron Courville Speech and Language Processing by Daniel Jurafsky and James Martin. Foundations of Statistical Natural Language Processing by Christopher Manning and Hinrich Schütze		
Weekly Subjects	Week	Dates	Subject	
	1		Introduction to Deep Natural Language Processing	
	2		NLP Basics and Review	
	3		Deep Learning Review and	
	4		Word Representations	
	5		CNN with Text and Text Classification	
	6		RNN, Sequence Models and Neural Language Models	
	7		Sequence to Sequence Learning and Attention Mechanism	
	8		Transformers	
	9		Transfer Learning in NLP	
	10		Transfer Learning in NLP	
	11		Student Presentations	
	12		Student Presentations	
	13		Student Presentations	
	14		Project Presentations	
Assessment Methods	Type	Weight	Implementation Rule	Make-Up Rule
	Paper Presentation	10	Students are expected to present a paper approved by the instructor.	No make up for missed presentation.
	Attendance	15	Active Attendance: Students are expected to actively participate to the lectures when a question is asked.	No make up for missed attendance.
	Take Home Exam - Project	75	The purpose of this take home exam is to get hands on practical experience. Students will work on the project individually Copying the work of others or from other sources is not permitted.	Students can have up to 5 late days in total for project related submissions (except for the proposal and final submissions) and each late day has 10% (10 points) penalty.
	TOTAL	100%		

Determining Letter Grade	<ul style="list-style-type: none"> • Paper presentation, attendance and take home exam project will be counted for the last letter grade. • Letter grades will be assigned based on curve, considering the distribution of the grades in the class • Any one of the followings lead to failing the course: <ol style="list-style-type: none"> (1) overall total grade below 40 (over 100) (2) not submitting a good quality project final paper (3) not presenting the Project 	
Other	Scholastic Honesty	Students are expected to abide by the rules of scholastic honesty. Any form of scholastic dishonesty is a serious academic violation and will result in a disciplinary action. Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.
	Flexibility	Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change. Students will be notified prior to any changes.