

 FLORIDA ATLANTIC UNIVERSITY	COURSE CHANGE REQUEST Graduate Programs		UGPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner _____ Catalog _____
	Department CEECS College Engineering and Computer Science		
Current Course Prefix and Number CAP 6640		Current Course Title Natural Language Processing	
<i>Syllabus must be attached for ANY changes to current course details. See Guidelines. Please consult and list departments that may be affected by the changes; attach documentation.</i>			
Change title to: Change prefix From: _____ To: _____ Change course number From: _____ To: _____ Change credits* From: _____ To: _____ Change grading From: _____ To: _____ Academic Service Learning (ASL) ** Add <input type="checkbox"/> Remove <input type="checkbox"/>		Change description to: Change prerequisites/minimum grades to: Graduate standing for CEECS students, and instructor's approval for students from other major. Change corequisites to: Change registration controls to: Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade.	
Effective Term/Year for Changes: Spring 2021		Terminate course? Effective Term/Year for Termination:	
Faculty Contact/Email/Phone Hanqi Zhuang/zuang@fau.edu/ 297-3413			
Approved by Department Chair <u>Hanqi Zhuang</u> College Curriculum Chair <u>Francisco Presuel-Moreno</u> College Dean <u>M. Cardei</u> UGPC Chair _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____		Date _____ _____ 10/25/2020 _____ _____ _____ _____	

Email this form and syllabus to UGPC@fau.edu 10 days before the UGPC meeting.

**Department of Computer and Electrical Engineering and Computer Science
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Course Syllabus**

1. Course title/number, number of credit hours	
CAP 6640 Natural Language Processing	3 credit hours
2. Course prerequisites, corequisites, and where the course fits in the program of study	
Prerequisites: Graduate standing for CEECS students, and instructor's approval for students from other major.	
3. Course logistics	
Term: TBD Room: TBD Time: TBD Final Exam: TBD	
4. Instructor contact information	
<i>Instructor's name</i>	Dingding Wang
<i>Office address</i>	Engineering East (EE-96) Bldg., Rm. 510
<i>Office Hours</i>	Wed/Fri 1:00pm-2:00pm
<i>Contact telephone number</i>	(561) 297-3228
<i>Email address</i>	wangd@fau.edu
5. TA contact information	
<i>TA's name</i>	TBD
<i>Office address</i>	TBD
<i>Office Hours</i>	TBD
<i>Email address</i>	TBD
6. Course description	
This course provides students with both theory and applications of natural language processing. It includes relevant background material in linguistics, mathematics, probability and computer science. Some of the topics covered in the class are text similarity, part-of-speech tagging, parsing, semantics, question answering, sentiment analysis and text summarization.	
7. Course objectives/student learning outcomes/program outcomes	
<i>Course objectives</i>	At the end of the class, students should be able to master latest Natural Language Processing (NLP) techniques. Students will apply these techniques on real-world web data using NLP tools.
8. Course evaluation method	
3 Assignments (computer-based, 15% each) - 45% Exam-30% Project-25% Notes: In the project, the students will (1) read literatures and survey in an NLP area or (2) introduce an NLP software toolkit. The students will present their surveys or demos in class and submit a final report by summarizing their projects at the end of the semester.	
9. Course grading scale	
Grading Scale: 90 and above: "A", 86-89: "A-", 82-85: "B+", 80-83: "B", 76-79: "B-", 72-75: "C+", 68-71: "C", 64-67: "C-", 60-63: "D+", 56-59: "D", 52-55: "D-", 51 and below: "F." Note: Calculated grades will be rounded to the nearest integer.	
10. Policy on makeup tests, late work, and incompletes	
<i>Makeup exams</i> are given only if there is solid evidence of a medical or otherwise serious emergency that prevented the student of participating in the exam. Makeup exams will be administered and proctored by department personnel unless there are other pre-approved arrangements	

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<p><i>Incomplete grades</i> are against the policy of the department, unless there is solid evidence of medical or otherwise serious emergency situation incomplete grades will not be given.</p>
11. Special course requirements
None
12. Classroom etiquette policy
University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones and laptops, are to be disabled in class sessions.
13. Attendance policy statement
<p>Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.</p>
14. Disability policy statement
In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/
15. Counseling and Psychological Services (CAPS) Center
Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to http://www.fau.edu/counseling/
16. Code of Academic Integrity Policy Statement
Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001 .

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17. Required texts/reading	
Speech and Language Processing (2nd edition) Authors: Dan Jurafsky and James H. Martin ISBN-13: 978-0131873216, 2009.	
18. Supplementary/recommended readings	
None	
19. Course topical outline	
DATE	TOPIC
Week 1	Introduction and NLP Tasks
Week 2	Bag of Words Model and Text Similarity Homework 1 posted.
Week 3	Semantic Similarity Analysis
Week 4	Syntax and Parsing Homework 1 due.
Week 5	Language Modeling and Word Sense Disambiguation
Week 6	Part of Speech Tagging and Information Extraction Homework 2 posted.
Week 7	Supervised Learning Methods for NLP
Week 8	Unsupervised Learning Methods for NLP Homework 2 due.
Week 9	Exam
Week 10	Question Answering Systems
Week 11	Document Summarization Homework 3 posted.
Week 12	Sentiment Analysis
Week 13	Deep Learning for NLP Homework 3 due.
Week 14	Machine Translation, and Generation
Week 15	Student Project Presentations
Final Exam	Final project Report due.