

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>COURSE CHANGE REQUEST</b> <b>Graduate Programs</b>	UGPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner _____ Catalog _____
	<b>Department</b> CEECS  <b>College</b> Engineering and Computer Science	
<b>Current Course Prefix and Number</b> CAP 6640		<b>Current Course Title</b> Natural Language Processing
<i>Syllabus must be attached for ANY changes to current course details. See <a href="#">Guidelines</a>. Please consult and list departments that may be affected by the changes; attach documentation.</i>		
<b>Change title to:</b>  <b>Change prefix</b> From: _____ To: _____ <b>Change course number</b> From: _____ To: _____ <b>Change credits*</b> From: _____ To: _____ <b>Change grading</b> From: _____ To: _____ <b>Academic Service Learning (ASL) **</b> Add <input type="checkbox"/> Remove <input type="checkbox"/>		<b>Change description to:</b>  <b>Change prerequisites/minimum grades to:</b> None.  <b>Change corequisites to:</b>  <b>Change registration controls to:</b>  Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade.
<b>Effective Term/Year for Changes:</b> Spring 2021		<b>Terminate course? Effective Term/Year for Termination:</b>
<b>Faculty Contact/Email/Phone</b> Hanqi Zhuang/zuang@fau.edu/ 297-3413		
<b>Approved by</b> 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 _____		<b>Date</b> _____ _____ 10/25/2020 _____ _____ _____ _____

Email this form and syllabus to [UGPC@fau.edu](mailto:UGPC@fau.edu) 10 days before the UGPC meeting.

**Department of Computer and Electrical Engineering and Computer Science  
Florida Atlantic University  
Course Syllabus**

<b>1. Course title/number, number of credit hours</b>	
CAP 6640 Natural Language Processing	3 credit hours
<b>2. Course prerequisites, corequisites, and where the course fits in the program of study</b>	
Prerequisites: None	
<b>3. Course logistics</b>	
Term: TBD Room: TBD Time: TBD Final Exam: TBD	
<b>4. Instructor contact information</b>	
<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
<b>5. TA contact information</b>	
<i>TA's name</i>	TBD
<i>Office address</i>	TBD
<i>Office Hours</i>	TBD
<i>Email address</i>	TBD
<b>6. Course description</b>	
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.	
<b>7. Course objectives/student learning outcomes/program outcomes</b>	
<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.
<b>8. Course evaluation method</b>	
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.	
<b>9. Course grading scale</b>	
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.	
<b>10. Policy on makeup tests, late work, and incompletes</b>	
<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 <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.	

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<b>11. Special course requirements</b>
None
<b>12. Classroom etiquette policy</b>
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.
<b>13. Attendance policy statement</b>
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.
<b>14. Disability policy statement</b>
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 <a href="http://www.fau.edu/sas/">www.fau.edu/sas/</a>
<b>15. Counseling and Psychological Services (CAPS) Center</b>
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 <a href="http://www.fau.edu/counseling/">http://www.fau.edu/counseling/</a>
<b>16. Code of Academic Integrity Policy Statement</b>
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 <a href="#">University Regulation 4.001</a> .
<b>17. Required texts/reading</b>

**Department of Computer and Electrical Engineering and Computer Science  
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Speech and Language Processing (2nd edition) Authors: Dan Jurafsky and James H. Martin ISBN-13: 978-0131873216, 2009.	
<b>18. Supplementary/recommended readings</b>	
None	
<b>19. Course topical outline</b>	
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.

**From:**Rainer Steinwandt <RSTEINWA@fau.edu>  
**Sent:**Thursday, November 5, 2020 10:54 AM  
**To:**Mihaela Cardei <mcardei@fau.edu>  
**Cc:**Hanqi Zhuang <zhuang@fau.edu>  
**Subject:**RE: CEECS - Course Perquisite Changes

Hello,

Sounds good. The proposed prerequisite of “Graduate Standing” makes the courses accessible to our graduate students, which is very welcome. There are no concerns from math w.r.t. this change. Thanks for checking.

Best,  
Rainer

**From:**Mihaela Cardei <mcardei@fau.edu>  
**Sent:**Thursday, November 5, 2020 10:50 AM  
**To:**Rainer Steinwandt <RSTEINWA@fau.edu>  
**Cc:**Hanqi Zhuang <zhuang@fau.edu>  
**Subject:**CEECS - Course Perquisite Changes

Hello Dr. Steinwandt,

CEECS department is changing prerequisites of the following graduate courses which are listed in the Cyber Security Certificate.

CDA5326 Cryptographic Engineering  
CIS5371 Practical Aspects of Modern Cryptography

The prerequisites are changed to Graduate Standing.

Changing of the prerequisites for these courses were discussed in UGPC yesterday November 4th, and the UGPC committee asked us to check with the other colleges where we have joint interdisciplinary programs. The next meeting, UGC, is on November 13 from 10:00 AM.

Please let us know if Mathematical Sciences has any objections to these prerequisite changes.

Best regards,  
Mihaela Cardei

**From:**Kevin Wagner <kwagne15@fau.edu>  
**Sent:**Thursday, November 5, 2020 10:26 AM  
**To:**Mihaela Cardei <mcardei@fau.edu>  
**Cc:**Hanqi Zhuang <zhuang@fau.edu>; Taghi Khoshgoftaar <khoshgof@fau.edu>  
**Subject:**Re: MS DSA Steering Committee

Fine with me.

*KW*

*Kevin M. Wagner, J.D., PhD*  
**Professor and Chair, Department of Political Science**  
**President, FAU Faculty Senate**  
**Trustee, FAU Board of Trustees**  
**Director of the Jack Miller Forum**  
**Dorothy F. Schmidt College of Arts and Letters**  
**Florida Atlantic University**  
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Florida has a very broad public records law. As a result, any written communication created or received by Florida Atlantic University employees is subject to disclosure to the public and the media, upon request, unless otherwise exempt. Under Florida law, e-mail addresses are public records.

On Thu, Nov 5, 2020 at 10:21 AM Mihaela Cardei <[mcardei@fau.edu](mailto:mcardei@fau.edu)> wrote:  
Hello Dr. Wagner,

CEECs department is changing the prerequisites for the following courses which are listed in the MS DSA program:

CORE course in MS DSA:  
CAP6673: Data Mining and Machine Learning

ELECTIVE courses in MS DSA:  
CAP5615: Introduction to Neural Networks  
CAP6315: Social Networks and Big Data Analytics

CAP6619: Deep Learning  
CAP6776: Information Retrieval  
CAP6777: Web Mining  
CEN6405: Computer Performance Modeling

The prerequisites are changed as follows:  
6000 level courses - change to no prerequisites  
5000 level courses - change to Graduate Standing

These courses were discussed in UGPC yesterday November 4th, and the UGPC committee asked us to check with MS DSA Steering Committee if they have any objections. The next meeting, UGC, is on November 13 from 10:00 AM.

Please let us know if the MS DSA Steering Committee has any objections.

Best regards,  
Mihaela Cardei

**From:**Tamara Dinev <tdinev@fau.edu>  
**Sent:**Thursday, November 5, 2020 10:41 AM  
**To:**Mihaela Cardei <mcardei@fau.edu>  
**Cc:**Hanqi Zhuang <zhuang@fau.edu>  
**Subject:**RE: CEECS - Course Perquisite Changes

Thank you Dr. Cardei. I will come back soon

Best Regards:  
Tamara

=====  
Tamara Dinev, Ph.D., Department Chair and Professor  
Dean's Distinguished Research Fellow  
Department of Information Technology and Operations Management, FL 219  
College of Business, Florida Atlantic University  
Boca Raton, Florida 33431  
tel. (561) 297-3181, email: tdinev@fau.edu  
Google Scholar:<https://scholar.google.com/citations?user=YH8QZ-YAAAAJ&hl=en>

**From:**Mihaela Cardei <mcardei@fau.edu>  
**Sent:**Thursday, November 5, 2020 10:35 AM  
**To:**Tamara Dinev <tdinev@fau.edu>  
**Cc:**Hanqi Zhuang <zhuang@fau.edu>  
**Subject:**CEECS - Course Perquisite Changes

Hello Dr. Dinev,

CEECS department is changing prerequisites of the following graduate courses which are listed in the MS ITM and/or Big Data Analytics Certificate.

MS ITM:

CEN 5035 is a core in CEECS concentrations only.

Electives: CAP 5615, CAP 6315, CAP 6619, CAP 6640, CAP 6673, CAP 6776, CAP 6777, CEN 6405, CEN 5086

Big Data Certificate:

CAP 5615, CAP 6315, CAP 6619, CAP 6640, CAP 6673, CAP 6776, CAP 6777, CEN 6405.

The prerequisites are changed as follows:

6000 level courses - change to no prerequisites

5000 level courses - change to Graduate Standing

These courses were discussed in UGPC yesterday November 4th, and the UGPC committee asked us to check with the other colleges where we have joint interdisciplinary programs. The next meeting, UGC, is on November 13 from 10:00 AM.

Please let us know if ITOM has any objections to these prerequisite changes.



Best regards,  
Mihaela Cardei