FLORIDA	COURSE CHANGE REQUEST Graduate Programs		UGPC Approval UFS Approval SCNS Submittal		
ATLANTIC	Department CEECS			Confirmed Banner	
UNIVERSITY	College Engineering and Computer Science			Catalog	
Current CourseCurrent CoursePrefix and NumberCAP 6777Web Mining				I	
Syllabus must be attached for <b>ANY</b> changes to current course details. See <u>Guidelines</u> . Please consult and list departments that may be affected by the changes; attach documentation.					
Change title to:			Change description to	:	
Change prefix	То				
From: To: Change course number			<b>Change prerequisites/minimum grades to:</b> None.		
From:	То:		None.		
Change credits*			Change corequisites t	0:	
From:	То:		0		
Change grading					
From:	То:		Change registration co	ontrols to:	
Academic Servi	ce Learning (ASL) **				
Add	Remove				
<ul> <li>Review Provost Memorandum</li> <li>** Academic Service Learning statement must be indicated in syllabus and approval attached to this form.</li> </ul>			Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade.		
Effective Term/ for Changes:			Terminate course? Eff for Termination:	fective Term/Year	
Faculty Contact/Email/Phone Hanqi Zhuang/zuang@fau.edu/ 297-3413					
<i>Approved by</i> Department Chair	Hangi Zhuang Date: 202		signed by Hanqi Zhuang 20.10.21 15:39:03 -04'00'	Date	
College Curriculun	Francisco Presuel-Moreno		ally signed by Francisco Presuel-Moreno m=Francisco Presuel-Moreno, o=Florida Atlantic University, ou=Ocean and manical Engineering, email=fpresuel@fau.edu, c=US 2020.10.22 12:44:29 -04'00'		
College Dean	Dicardei Die 2003.022 1934	haela Cardei 1, o-Riorida Atlantic University, ou, du, c=US 101-04100'		10/25/2020	
UGPC Chair					
UGC Chair —					
Graduate College Dean					
UFS President					
Provost					

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

1. Course title/number, number of credit hours					
Web Mining – CAP 6777		3 credit hours			
2. Course prerequisites, corequisites, and where the course fits in the program of study					
Prerequisites: None					
3. Course logistics					
Term:					
Class location and time					
4. Instructor contact information					
Instructor's name Office address Office Hours Contact telephone number Email address					
5. TA contact information					
TA's name Office address Office Hours Contact telephone number Email address					
6. Course description					
Course covers the techniques especially the web graph and h		d understand the Internet and the web,			
7. Course objectives/student learning outcomes/program outcomes					
Course objectives	and engineering applicat communication, network	cal skills that are important in computer science ions; to provide knowledge base for data <s, and="" knowledge<br="" programming.="" provide="" to="" web="">stering and classification.</s,>			
	information search and w collect, analyze, and und (including social network able to understand the w web, and carrying out sys	or students to gain hands-on experiences on web mining. Course covers techniques used to erstand the data from Internet and the web s). At the end of the class, students should be hole process of collecting information from the stem design for search and mining the web. We ments (such as Twitter data) as the testbed and miques.			
Student learning outcomes & relationship to ABET objectives	knowledge of mathemat	respect to ABET objective: (1) an ability to apply ics, science, and engineering; (2) an ability to solve engineering problems; and (3) an ability to			

		-			
	<ul> <li>design and conduct experiments, as well as to analyze and interpret data</li> <li>1. The student will understand the concepts of Web, Internet, Data Mining, and recommender systems.</li> <li>2. The student will be able to develop algorithms and tools to analyze and mine web documents.</li> <li>3. The student will learn algorithms, and tools for web recommendations.</li> </ul>				
8. Course evaluation method					
Home Work -	60%	<i>Note</i> : The minimum grade required to pass the			
Participation -	5%	course is C.			
Final Examination -	35%				
9. Course grading scale					
55-59: "D"; 50-54: "D-"; 49 and	below: "F."	`B"; 70-74 : ``B-``; 65-69:  ``C+"; 62-64: ``C"; 60-61:  ``C-``;			
10. Policy on makeup tests, l	ate work, and incom	pletes			
should be administered and arrangements <i>Late work</i> is acceptable only if	proctored by depart	student from participating in the exam. Makeup exam ment personnel unless there are other pre-approved encing medical or any other emergency issues (with ission, the penalty is -2 point/day.			
<i>Incomplete grades</i> are against the policy of the department. Unless there is solid evidence of medical or otherwise emergency situations, which can be properly justified, incomplete grades will not be given.					
11. Special course requirements					
N/A					
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 staten	nent				
objectives as outlined by the i instructor, and the University attendance. Students are resp absence, such as illness, famil participation in University-app	nstructor. The effect or reserves the right to or consible for arranging y emergencies, milita proved activities. Exar	ed University classes and to satisfy all academic of absences upon grades is determined by the leal at any time with individual cases of non- to make up work missed because of legitimate class ry obligation, court-imposed legal obligations or nples of University-approved reasons for absences m, 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.

### 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 <u>www.fau.edu/sas/</u>

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 <a href="http://www.fau.edu/counseling/">http://www.fau.edu/counseling/</a>

**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 <u>University</u> <u>Regulation 4.001</u>.

#### 17. Required texts/reading

Introduction to Information Retrieval, Cambridge University Press, 2008. Christopher D. Manning, Prabhakar Raghavan and Hinrich Schütze

http://nlp.stanford.edu/IR-book/

Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data, 2<sup>nd</sup> Edition, Springer July 2011, Bing Liu.

http://www.cs.uic.edu/~liub/WebMiningBook.html

## **18.** Supplementary/recommended readings

Research papers which will be distributed in the class

19. Course topical outline, including dates for exams/quizzes, papers, completion of reading

Information Collection and Integration [Week 1, homework 1]

- Web crawling
- Information extraction and integration

Information retrieval [week 2-3, homework 2]

- Text indexing, scoring, and ranking.
- Web Search

Web Mining [week 3-5, homework 3]

- Text clustering and classification
- Online opinion/sentiment analysis

Web Recommendation [week 5-6, homework 4]

• Recommendation systems.

Final Exam:

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.

# XMW

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 777 Glades Road Boca Raton, FL 33431 tel: 561-252-1794 fax: 561-297-2997 kwagne15@fau.edu Twitter: @kevinwagnerphd www.fau.edu/politicalscience



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 <<u>mcardei@fau.edu</u>> 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

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