

	UGPC APPROVAL
	UFS APPROVAL
	SCNS SUBMITTAL
-	CONFIRMED
-	BANNER POSTED
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Graduate Programs—NEW COURSE PRO			POSAL	BANNER POSTED	
Gradanter	rograms new c	OURSETR	OLOSAL	CATALOG	
ELECTRICAL ENGINE	ARTMENT OF COMPUTER & EERING AND COMPUTER SCIENCE	COLLEGE: EN	IGINEERING AND COMPUTER	SCIENCE	
	DURSE IDENTIFICATION:			EFFECTIVE DATE	
PREFIXCA	P Course Number	6776	LAB CODE (L or C)	(first term course will be offered)	
TO OBTAIN A COURS	E NUMBER, CONTACT IMALDONADO	Mean ema			
	TITLE: INFORMATION RETRIEVA	The state of the s		FALL 2016	
CREDITS ² : 3					
CREDITS :3	CREDITS*: 3 TEXTBOOK INFORMATION: Christopher D. Manning, Prabhakar Raghavan, Hinrich Schütze: Introduction to Information Retrieval, Cambridge University Press, July, 2008. ISBN: 9780521865715				
GRADING (SELECT O	NLY ONE GRADING OPTION): REGU	LARX S4	ATISFACTORY/UNSATĮSFACT	ORY	
COURSE DESCRIPTI	ON, NO MORE THAN THREE LINES:				
relevant information	es concepts, techniques, and on from a collection of resou pplications will also be introd	ces. The class will	applications in informa cover efficient text ind	tion retrieval (IR), which aims to obtain exing, text processing, web search, and	
PREREQUISITES *: CO Structures and Al Analysis or perm instructor * PREREQUISITES, COI	lgorithm	UISITES*: TROLS WILL BE ENFOR	GRADUATE STUDE ENGINEERING, OR	ONTROLS (MAJOR, COLLEGE, LEVEL)*: NTS IN COMPUTER SCIENCE, COMPUTER ELECTRICAL ENGINEERING	
	TIONS NEEDED TO TEACH THIS CO ADUATE FACULTY OF FAU AND HA		EE IN THE SUBJECT AREA (C	IR A CLOSELY RELATED FIELD)	
	and complete phone number: angd@fan.edu, 561-297-3228	romments. TOM (College	•	t be affected by the new course and attach	
Approved by:		<u> </u>	Date:	L. Sylinbus must be attached; see	
Department Chair: Mange Ender 9/9/15 guidelines for requirements:					
College Curriculum			9/21/15	syllabus 2011.pdf	
College Dean:		elemino de calenda de 1881 (de 1881).	9h11219	2. Review Provost Memorandum: Definition of a Credit Hour	
UGPC Chair:				www.fau.edu.provast files Definition Credit How Memo 2012.pdf	
	ean:		Marie		
UFS President:				Consent from affected departments (agach if necessary)	

Email this form and syllabus to <u>UGPC@fau.edu</u> one week before the University Graduate Programs Committee meeting so that materials may be yiewed on the UGPC website prior to the meeting.

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

1. Course title/number, num	ber of credit hours	
CAP 6776: Information Retrie	eval	3 # of credit hours
2. Course prerequisites, core	equisites, and where th	ne course fits in the program of study
COP3530 Data Structures and	d Algorithm Analysis	
Or permission of the instructo		
3. Course logistics		
Term: Fall 2016		
This is a classroom lecture cou	urse	
Text book: Christopher D. Ma	nning, Prabhakar Ragh	avan, Hinrich Schütze: Introduction to Information
Retrieval, Cambridge Univers		BN: 9780521865715
This course has moderate des	ign content.	
4. Instructor contact informa	ation	
Instructor's name	Dr. Dingding Wang, A	Assistant Professor
Office address	Engineering East (EE	
Office Hours	TBA	
Contact telephone number	561-297-3228	
Email address	wangd@fau.edu	
5. TA contact information		
TA's name		
Office address		
Office Hours		
Contact telephone number		
Email address		
6. Course description		
This course teaches concepts,	techniques, and popula	ar tools and applications in information retrieval (IR),
which aims to obtain relevant	information from a colle	ection of resources. The class will cover efficient text
indexing, text processing, web	search, and text minin	g. New applications will also be introduced.
7. Course objectives/student	learning outcomes/pro	ogram outcomes
Course objectives	This course will prov	ide students with both theory and applications of
ennemodistrike 🖈 1999 (1990)	Information Retrieval	. Students will gain basic to advanced knowledge and
	hands-on experience.	
	At the end of the class	s, students should be able to master latest techniques
		search, text mining and system evaluation including
		ating term weights and ranking scores, etc. Students

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Course Syllabus				
will IR to		ese techniques on real-world web data using		
8. Course evaluation method				
Assignments (computer-based)-	80 %			
Project Report -	20 %			
Note: Project topics include: IR tool	esign and			
development or survey of an IR topic	e.q.,			
recommendation systems.				

9. Course grading scale

Grading Scale:

go and above: "A", 87-89: "A-", 83-86: "B+", 80-82: "B", 77-79: "B-", 73-76: "C+", 70-72: "C", 67-69: "C-", 63-66: "D+", 60-62: "D", 51-59: "D-", 50 and below: "F."

10. Policy on makeup tests, late work, and incompletes

Makeup exams are given only if there is solid evidence of a medical or otherwise serious emergency that prevents the student of participating in the exam. Makeup exams will be administered and proctored by department personnel unless there are other pre-approved arrangements.

A grade of incomplete will be assigned only in the case of solid evidence of medical or otherwise serious emergency situation.

Must turn in homework, reports and projects on time. One point per working day will be deducted from the late assignment. Will not accept your work after 3 working days or the solution has been provided.

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. Disability policy statement

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) located in Boca Raton campus, SU 133 (561) 297-3880 and follow all OSD procedures.

14. Honor code policy

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 unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a

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

system of mutual trust and place high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. See University Regulation 4.001 at www.fau.edu/regulations/chapter4/4.001 Code of Academic Integrity.pdf

15. Required texts/reading

Christopher D. Manning, Prabhakar Raghavan, Hinrich Schütze: Introduction to Information Retrieval, Cambridge University Press, July, 2008. ISBN: 9780521865715
Hand-outs and notes

16. Supplementary/recommended readings

Bruce Croft, Donald Metzler, Trevor Strohman: Search Engines: Information Retrieval in Practice. ISBN-10: 0136072240 • ISBN-13: 9780136072249

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

Week 1	Boolean retrieval
Week 2	The term vocabulary and postings lists
Week 3	Dictionaries and tolerant retrieval
	Assignment 1 will be given
Week 4	Scoring and term weighting
Week 5	Vector space model
Week 6	Semantic similarity
	Assignment 2 will be given
Week 7	Computing scores in a complete search system
Week 8	Evaluation in IR
	Assignment 3 will be given
Week 9	Text classification
-	Project specifications will be given
Week 10	Text clustering
Week 11	Text summarization
	Assignment 4 will be given
Week 12	Tools and Application
Week 13	Project review and student presentations
Week 14	Student presentations

RE: Request from the CEECS Department

Tamara Dinev

To:

Minaela Cardei

Cc:

Nurgun Erdel Chiang-Sheng Huang Carvn Conley

Tuesday September 15, 2015 2:20 PM

S CA

Dear Dr. Cardei:

Regarding the 4 new course proposals below, I approve of their creation.

Regarding the Certificate in Big Data Analytics, per our conversation today with Dr. Erdol, rather than having two separate certificates in Data/Business Analytics, we agreed to create one certificate – in Big Data Analytics – with two tracks: Computer Science track and Business track. Students in each track with take 3 courses offered by the corresponding college, and one from the other college. Thus, a student in Computer Science track will take 3 CAP courses and 1 ISM course, and a student in College of Business will take 3 ISM courses and one CAP course.

Please contact Dr. Huang to coordinate how to amend our proposals toward this final version and fast track through the colleges so we can present our proposal at the upcoming University Council session.

Best Regards:

Tamara

Tamara Diney, Ph.D.

Department Chair and Professor

Department of Information Technology and Operations Management

College of Business

Florida Atlantic University

Boca Raton, Florida 33431

OFFICE: Fleming Hall, 219

TEL: (561) 297-3181

FAX: (561) 297-3043

e-mail: tdinev@fau.edu

From: Mihaela Cardei

Sent: Thursday, September 10, 2015 9:25 AM

To: Tamara Dinev <tdinev@fau.edu>

Cc: Nurgun Erdol <erdol@fau.edu>; Mihaela Cardei <mcardei@fau.edu>

Subject: Request from the CEECS Department

Dear Dr. Diney

I am the chair of the Graduate Programs Committee in the Department of Computer & Electrical Engineering and Computer Science (CEECS) at FAU, and we are proposing a Certificate Program in Big Data Analytics.

Please find attached to this email the Certificate description and 4 new course proposals (CAP 6771, CAP 6780, CAP6688, and CAP6776) which are listed in the Certificate.

We would need you approval that ITOM Department supports the Certificate in Big Data Analytics and the 4 new courses.

Could you please review the material and email me your approval decision?

Thank you,

Mihaela Cardei, PhD
Professor
Computer & Electrical Engineering and Computer Science Department
College of Engineering and Computer Science
Florida Atlantic University
http://www.cse.fau.edu/~mihaela

Re: Request for approval - Big Data Analytics Certificate & new courses

Rainer Steinwandt [srainer@math.fau.edu]

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in haela Carder

Wednesde, September 13 20 5 104 Pt r

Dear Mihaela,

Thank you for your email. The proposed certificate program and the associated courses of the CEECS Department and ITOM look very fine to me. For the Department of Mathematical Sciences, I support this certificate program and the associated courses and hope that this program will be a great success.

Kind regards, Rainer

---- Original Message -----

From: "Mihaela Cardei" <mcardei@fau.edu>

To: "Rainer Steinwandt" < srainer@math.fau.edu>

Cc: "Nurgun Erdol" <erdol@fau.edu>, "Tamara Dinev" <tdinev@fau.edu>,
"Chiang-Sheng Huang" <dhuang@fau.edu>, "Mihaela Cardei" <mcardei@fau.edu>

Sent: Wednesday, September 16, 2015 7:26:41 PM

Subject: Request for approval - Big Data Analytics Certificate & new

courses

Dear Dr. Steinwandt,

The Department of Computer & Electrical Engineering and Computer Science (CEECS) and the Department of Information Technology and Operations Management (ITOM) at FAU are proposing a joint Certificate Program in Big Data Analytics, with two tracks: Computer Science and Business.

In addition, CEECS Department is proposing 4 new course proposals (CAP 6771, CAP 6780, CAP6688, and CAP6776) and ITOM is proposing 3 new course proposals (ISM6422, ISM6119, ISM6058).

Please find attached to this email the Certificate and new course proposal documents.

We would need your approval that the Department of Mathematical Sciences supports the joint Certificate in Big Data Analytics and the new course proposals.

Could you please review the material and email me your approval decision?

Thank you,

Mihaela Cardei, PhD
Professor
Computer & Electrical Engineering and Computer Science Department
College of Engineering and Computer Science
Florida Atlantic University
http://www.cse.fau.edu/~mihaela