

FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—NEW COURSE PROPOSAL¹

UGPC APPROVAL _____
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

DEPARTMENT: DEPARTMENT OF COMPUTER &
ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

COLLEGE: ENGINEERING AND COMPUTER SCIENCE

RECOMMENDED COURSE IDENTIFICATION:

PREFIX _____ CAP _____ COURSE NUMBER 8776 _____ LAB CODE (L or C) _____

(TO OBTAIN A COURSE NUMBER, CONTACT NMALDONADO@FAU.EDU)

COMPLETE COURSE TITLE: INFORMATION RETRIEVAL

EFFECTIVE DATE

(first term course will be offered)

FALL 2015 _____

CREDITS²: 3

TEXTBOOK INFORMATION:

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

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN THREE LINES:

This course teaches concepts, techniques, and popular tools and applications in information retrieval (IR), which aims to obtain relevant information from a collection of resources. The class will cover efficient text indexing, text processing, web search, and text mining. New applications will also be introduced.

PREREQUISITES*: COP3530 Data Structures and Algorithm Analysis

COREQUISITES*:

REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:
GRADUATE STUDENTS IN COMPUTER SCIENCE, COMPUTER ENGINEERING, OR ELECTRICAL ENGINEERING

* PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE:

MEMBER OF THE GRADUATE FACULTY OF FAU AND HAS A TERMINAL DEGREE IN THE SUBJECT AREA (OR A CLOSELY RELATED FIELD)

Faculty contact, email and complete phone number:
Dingding Wang, wangd@fau.edu, 561-297-3228

Please consult and list departments that might be affected by the new course and attach comments.³
N/A

Approved by:

Department Chair: *Dingding Wang*
 College Curriculum Chair: *[Signature]*
 College Dean: *[Signature]*
 UGPC Chair: _____
 Graduate College Dean: _____
 UFS President: _____
 Provost: _____

Date:

05/21/15
5/3/15

8/11/2015

1. Syllabus must be attached; see guidelines for requirements:

www.fau.edu/provost/files/course_syllabus.2011.pdf

2. Review Provost Memorandum:

Definition of a Credit Hour
www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf

3. Consent from affected departments (attach if necessary)

Email this form and syllabus to UGPC@fau.edu one week before the University Graduate Programs Committee meeting so that materials may be viewed 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, number of credit hours	
CAP 6776: Information Retrieval	3 # of credit hours
2. Course prerequisites, corequisites, and where the course fits in the program of study	
COP3530 Data Structures and Algorithm Analysis Or permission of the instructor	
3. Course logistics	
<p><i>Term:</i> Fall 2015 This is a classroom lecture course TR 12:30pm-1:50pm FL401 Text book: Christopher D. Manning, Prabhakar Raghavan, Hinrich Schütze: Introduction to Information Retrieval, Cambridge University Press, July, 2008. ISBN: 9780521865715 This course has moderate design content.</p>	
4. Instructor contact information	
<i>Instructor's name</i>	Dr. Dingding Wang, Assistant Professor
<i>Office address</i>	Engineering East (EE96) Rm 510
<i>Office Hours</i>	Tue 2:00pm-3:30pm Thu 2:00pm-3:30pm
<i>Contact telephone number</i>	561-297-3228
<i>Email address</i>	wangd@fau.edu
5. TA contact information	
<i>TA's name</i>	
<i>Office address</i>	
<i>Office Hours</i>	
<i>Contact telephone number</i>	
<i>Email address</i>	
6. Course description	
This course teaches concepts, techniques, and popular tools and applications in information retrieval (IR), which aims to obtain relevant information from a collection of resources. The class will cover efficient text indexing, text processing, web search, and text mining. New applications will also be introduced.	
7. Course objectives/student learning outcomes/program outcomes	
<i>Course objectives</i>	This course will provide students with both theory and applications of Information Retrieval. Students will gain basic to advanced knowledge and hands-on experience.
<i>Student learning outcomes & relationship to ABET a-k objectives</i>	At the end of the class, students should be able to master latest techniques of text indexing, web search, text mining and system evaluation including building index, calculating term weights and ranking scores, etc. Students will form teams and apply these techniques on real-world web data using IR tools.

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8. Course evaluation method	
Assignments (computer-based)-	80 %
Project Report -	20 %
9. Course grading scale	
Grading Scale: 90 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	
<p>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.</p> <p>A grade of incomplete will be assigned only in the case of solid evidence of medical or otherwise serious emergency situation.</p> <p>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.</p>	
11. Special course requirements	
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	
<p>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 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</p>	
15. Required texts/reading	

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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

Topics	Approximate # 1.5 hr. lecture
Indexing, term weighting, vector space model	4
Scoring and ranking in a search system	2
Useful text processing tools	2
System evaluation	2
Text clustering	4
Text classification	2
Text summarization	4
Tools and Applications	4
Other IR topics	4