FLORIDA ATLANTIC

COURSE CHANGE REQUEST Graduate Programs

Department CEECS

| UGPC Approval |
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| UFS Approval |
| SCNS Submittal |
| Confirmed |
| Banner |
| Catalog |

| ATLANTIC | Department OLLOO | | | Confirmed | | |
|--|--|------------------------|---|--|--|--|
| UNIVERSITY | Collogo | | | Banner | | |
| UNIVERSITY College Engineering and Computer S | | | Science | Catalog | | |
| Current Course | <u>I</u> | | | | | |
| Current Course CAP 6777 Current Co | | | 3 | | | |
| Syllabus must be at | ttached for ANY changes to c | rurrent course | details. See <u>Guidelines</u> . Pleas | re consult and list departments | | |
| that may be affected by the changes; attach documentation. | | | | | | |
| | | | | | | |
| Change title to: | | | Change description to | | | |
| | | | | | | |
| Change prefix | | | | | | |
| From: | To: | | Change prerequisites/ | /minimum grades to: | | |
| Change course i | number | | Graduate standing for | • | | |
| From: To: | | | or students from other major. | | | |
| Change credits* | | Change corequisites to |): | | | |
| From: | To: | | _ | | | |
| Change grading | | | | | | |
| From: To: | | Change registration co | ontrols to: | | | |
| Academic Servi | ce Learning (ASL) ** | | | | | |
| Add | Remove | | | | | |
| * Review Provost M | emorandum Loarning statement must be in | dicated in | DI II. | / | | |
| ** Academic Service Learning statement must be indicated in syllabus and approval attached to this form. | | | Please list existing and new p and include minimum passin | ore/corequisites, specify AND or OR grade. | | |
| Effective Term/Year | | | Terminate course? Eff | ective Term/Year | | |
| for Changes: Spring 2021 | | for Termination: | , | | | |
| Faculty Contact/Email/Phone Hanqi Zhuang/zuang@fau.edu/ 297-3413 | | | | | | |
| Approved by | Hanqi Zhuang Digitally signed by Hanqi Zhuang Date Date | | | | | |
| Department Chair | Date: 2020.10.21 15:39:03 -04'00" | | | | | |
| College Curriculun | Francisco Procued Morono Distally signed by Francisco Presule-Moreno Principal Conference of Procured Authority ou - Ocean and | | | | | |
| College Dean Oracle Confidence Canal Confidence Canad Canad Confidence Can | | | | 10/25/2020 | | |
| UGPC Chair | | | | | | |
| UGC Chair | | | | | | |
| Graduate College I | Dean | | | | | |
| UFS President _ | | | | | | |
| Provost | | | | | | |

Email this form and syllabus to $\underline{\text{UGPC@fau.edu}}\ 10$ days before the UGPC meeting.

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

| 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: Graduate standing for CEECS students, and instructor's approval for students from other major. | | | | | |
| 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 used to model, analyze, and understand the Internet and the web, especially the web graph and hypertext data. | | | | | |
| 7. Course objectives/student learning outcomes/program outcomes | | | | | |
| Course objectives | and engineering applicat communication, network on web crawling, text clu The goal of this class is for information search and we collect, analyze, and undefined including social network able to understand the western applications. | cal skills that are important in computer science ions; to provide knowledge base for data as, and web programming. To provide knowledge stering and classification. or students to gain hands-on experiences on web mining. Course covers techniques used to erstand the data from Internet and the web as). 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 iniques. | | | |
| Student learning outcomes & relationship to ABET | _ | respect to ABET objective: (1) an ability to apply ics, science, and engineering; (2) an ability to | | | |

Department of Computer and Electrical Engineering and Computer Science Florida Atlantic University

| Course Syllabus | | | | | |
|---|--|--|--|--|--|
| objectives | design and conduct The student with Mining, and rect The student with and mine web of the student with a student with a student with the stu | identify, formulate, and solve engineering problems; and (3) an ability to design and conduct experiments, as well as to analyze and interpret data 1. The student will understand the concepts of Web, Internet, Data Mining, and recommender systems. 2. The student will be able to develop algorithms and tools to analyze and mine web documents. 3. The student will learn algorithms, and tools for web recommendations. | | | |
| 8. Course evaluation me | thod | | | | |
| Home Work - Participation - Final Examination - | 60% 5% 35% | Note: The minimum grade required to pass the course is C. | | | |
| 9. Course grading scale | | | | | |

Grading Scale:

go and above: "A"; 85-89: "A-"; 80-84: "B+"; 75-79: "B"; 70-74: "B-"; 65-69: "C+"; 62-64: "C"; 60-61: "C-"; 55-59: "D"; 50-54: "D-"; 49 and below: "F."

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

Makeup tests are possible, and are given only if there is solid evidence of medical or otherwise family/personal emergency issues that prevent the student from participating in the exam. Makeup exam should be administered and proctored by department personnel unless there are other pre-approved arrangements

Late work is acceptable only if the student is experiencing medical or any other emergency issues (with written evidence or reports). For all other late submission, the penalty is -2 point/day.

Incomplete grades 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 statement

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 nonattendance. 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

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

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.

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.

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, 2nd 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

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

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: