COURSE CHANGE REQUEST
Graduate Programs

FLORIDA ATLANTIC UNIVERSITY

Department CEECS

College Engineering and Computer Science

Current Course Prefix and Number	*Current* Course Title
CEN 6405	Computer Performance Modeling

*Syllabus must be attached for **ANY** changes to current course details. See Guidelines. Please consult and list departments that may be affected by the changes; attach documentation.*

Change title to:

Change prefix

    From: To:

Change course number

    From: To:

Change credits*

    From: To:

Change grading

    From: To:

Academic Service Learning (ASL) **

    Add ☐   Remove ☐

* Review Provost Memorandum
** Academic Service Learning statement must be indicated in syllabus and approval attached to this form.

Change description to:

Change prerequisites/minimum grades to:
None

Change corequisites to:

Change registration controls to:

Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade.

Effective Term/Year for Changes:	Spring 2021	**Terminate course? Effective Term/Year for Termination:**

Faculty Contact/Email/Phone Hanqi Zhuang/zuang@fau.edu/ 297-3413

Approved by		*Date*
Department Chair	Hanqi Zhuang — Digitally signed by Hanqi Zhuang Date: 2020.10.21 15:42:57 -04'00'	
College Curriculum Chair	Francisco Presuel-Moreno — Digitally signed by Francisco Presuel-Moreno DN: cn=Francisco Presuel-Moreno, o=Florida Atlantic University, ou=Ocean and Mechanical Engineering, email=fpresuel@fau.edu, c=US Date: 2020.10.22 12:37:16 -04'00'	
College Dean	M Cardei — Digitally signed by Mihaela Cardei DN: cn=Mihaela Cardei, o=Florida Atlantic University, ou, email=mcardei@fau.edu, c=US Date: 2020.10.25 19:37:36 -04'00'	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.

FAUchangecourseGR, revised Fall 2019

1. Course title/number, number of credit hours

Computer Performance Modeling / CEN 6405	3 credit hours

2. Course prerequisites, corequisites, and where the course fits in the program of study

Prerequisites: None

3. Course logistics

Term:
Location & Time:

4. Instructor contact information

Instructor's name *Office address* *Office Hours* *Contact telephone number* *Email address*	

5. TA contact information

6. Course description

Use of statistical software packages such as SAS for data validation, description and analysis of statistical models used in computer science and software engineering..

7. Course objectives/student learning outcomes/program outcomes

Course objectives	To enable students to understand basic concept of statistical modeling.
BSCS program outcomes	

8. Course evaluation method

Assignments worth 35% total, two take-home exams worth 55%, and a paper review and video presentation of the reviewed paper 10%.	

9. Course grading scale

Grading Scale:
90 and above: "A", above 85 but below 90: "B+", 80-85: "B", above 75 but below 80: "C+", 70-75: "C", above 65 but below 70: "D+", 60-65: "D", above 55 but below 60: D-, 55 and below: "F."

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

Assignments are to be submitted on time, with possible point penalties for late submissions. In no case will an assignment be accepted after the graded papers for that assignment have been returned to the students. However, appropriate accommodations will be made for students having a valid medical excuse for being unable to work on an assignment during its two week period.

Unless there is solid evidence of medical or otherwise serious emergency situation incomplete grades will not be given.

11. Special course requirements

NA

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, are to be disabled in class sessions, and laptops are only to be used for note taking and related activities.

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 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.

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

(1)   The Art of Computer Systems Performance Analysis, by Raj Jain.
(2) Selected articles and papers are posted on the course we site.

18. Supplementary/recommended readings

NA

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

Topics:

1.   Introduction - the art of performance evaluation
2.   Measurement techniques and tools
3.   Summarizing measured data
4.   Comparing systems using sample data
5.   Simple linear regression models
6.   Other regression models
7.   Introduction to experimental design
8.   Factorial designs
9.   One-factor experiments
10.   Two-factor full factorial design
11.   General full factorial designs with k factors
12.   Case studies

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.

KMW

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
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777 Glades Road
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www.fau.edu/politicalscience

On Thu, Nov 5, 2020 at 10:21 AM Mihaela Cardei <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
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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