

 FLORIDA ATLANTIC UNIVERSITY	COURSE CHANGE REQUEST Graduate Programs		UGPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner _____ Catalog _____
	Department CEECS College Engineering and Computer Science		
Current Course Prefix and Number CAP 5615	Current Course Title Introduction to Neural Networks		
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 <input type="checkbox"/> Remove <input type="checkbox"/>	Change description to: Change prerequisites/minimum grades to: Graduate Standing Change corequisites to: Change registration controls to:		
* Review Provost Memorandum ** Academic Service Learning statement must be indicated in syllabus and approval attached to this form.		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 Department Chair _____ Hanqi Zhuang College Curriculum Chair _____ Francisco Presuel-Moreno College Dean _____ M. Cardei UGPC Chair _____ Christopher Beecher UGC Chair _____ Paul R. Fisher Graduate College Dean _____ Robert W. Stackman Jr. UFS President _____ Provost _____	Digitally signed by Hanqi Zhuang Date: 2020.10.21 15:32:23 -04'00' Digitally signed by Francisco Presuel-Moreno DN: cn=Francisco Presuel-Moreno, ou=Florida Atlantic University, ou=Ocean and Mechanical Engineering, email=fpresuel@fau.edu, c=US Date: 2020.10.21 13:08:07 -04'00' Digitally signed by M. Cardei DN: cn=M. Cardei, ou=Florida Atlantic University, ou=email-internal@fau.edu, c=US Date: 2020.10.21 13:06:40 -04'00' Digitally signed by Christopher Beecher DN: cn=Christopher Beecher, ou=Florida Atlantic University, ou=College of Business Administration, email=cbec@fau.edu, c=US Date: 2020.10.21 13:06:40 -04'00' Digitally signed by Paul R. Fisher DN: cn=Paul R. Fisher, ou=Florida Atlantic University, ou=College of Business Administration, email=prfisher@fau.edu, c=US Date: 2020.10.21 13:06:40 -04'00' Digitally signed by Robert W. Stackman Jr. DN: cn=Robert W. Stackman Jr., ou=Florida Atlantic University, ou=College of Business Administration, email=rstackman@fau.edu, c=US Date: 2020.10.21 13:06:40 -04'00'	Date _____ _____ 10/25/2020 _____ Dec 18, 2020 _____ Dec 18, 2020 _____ Dec 18, 2020 _____ _____ _____	

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

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

1. Course title/number, number of credit hours	
Introduction to Neural Networks/ CAP 5615	3 credit hours
2. Course prerequisites, corequisites, and where the course fits in the program of study	
Prerequisite: <i>Graduate standing</i>	
3. Course logistics	
Term: Class location and time:	
4. Instructor contact information	
<i>Instructor's name Office address Office Hours Contact telephone number Email address Webex Link:</i>	
5. TA contact information	
<i>TA's name Office address Office Hours Contact telephone number Email address</i>	
6. Course description	
Brief introduction to biological neural systems. Models of neural mechanisms of learning and memory. Neural net applications to image processing, pattern recognition, machine learning, optimization problems, and robotics. Hardware implementation issues.	
7. Course objectives/student learning outcomes/program outcomes	
<i>Course objectives</i>	<ol style="list-style-type: none"> 1. Learn fundamental concepts of artificial neural networks, classification models, Bayes networks, and advanced learning framework, such as deep learning. 2. Develop abilities to analyze artificial neural networks. 3. Develop the basic understanding of Back Propagation for weight updating in neural networks. 4. Develop the ability to design basic learning systems.
<i>Student learning outcomes & relationship to ABET objectives</i>	<ol style="list-style-type: none"> 1. Proficiency in the areas of software design and development, data structures, and operating systems 2. An ability to plan and execute an engineering design to meet an identified need

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

8. Course evaluation method

1. Homework
2. Final Exam
3. Participation

9. Course grading scale

Grading Scale:

- | | |
|-----------------------------|-----------------------------|
| v 90% and above | A (including A, A-) |
| v 70-89% | B (including B+, B, and B-) |
| v 60-69% | C (including C+, C, and C-) |
| v 40-59% | D (including D+, C, and D-) |
| v 39% and below or cheating | F |

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

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

Late work is subject to late penalty.

Incomplete grades are against the policy of the department. Unless there is solid evidence of medical or otherwise serious emergency situation and the student is currently passing the class, incomplete grades will not be given.

11. Special course requirements

All homework assignments and all lab work in this course must be **INDIVIDUAL** effort. Please take the time to read the documentation. You are responsible for the information outlined in it. Please see the instructor, any teaching assistant, or Engineering Student Services tutoring for assistance. Check the **Where to Find Help** Section on Blackboard.

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 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.

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

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. Texts/reading

Textbook:

- [Deep Learning](#), Ian Goodfellow, Yoshua Bengio, and Aaron Courville, The MIT Press, 2016

18. Supplementary/recommended readings

Reference books:

1. [Neural Networks for Pattern Recognition](#), Christopher M. Bishop, Clarendon Press, 1996 (Online version available)
2. [Pattern Recognition and Machine Learning](#) Christopher M. Bishop, Springer, October, 2007, (Online version available)

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**

Topics:

- Introduction to machine learning & Python Programming (week 1)
- Pattern Recognition and Machine Learning
 - Decision Trees (Week 1)
 - Decision Tree learning using Python (Week 2)
- Neural Networks
 - Neural Network Structures (Week 3)
 - Single Layer Perceptron Learning (Week 3)
 - Multilayer Feedforward Neural Networks (Week 4)
 - Radial-Basis Function Networks (Week 5)
- Intro to Deep Learning (Week 6)

From:Hanqi Zhuang <zhuang@fau.edu>
Sent:Monday, November 30, 2020 10:03 AM
To:Tamara Dinev <tdinev@fau.edu>; Mihaela Cardei <mcardei@fau.edu>
Cc:Christopher Beetle <cbeetle@fau.edu>
Subject:Re: CEECS - Course Perquisite Changes

Thank you!

From:Tamara Dinev <tdinev@fau.edu>
Sent:Monday, November 30, 2020 10:02 AM
To:Hanqi Zhuang <zhuang@fau.edu>; Mihaela Cardei <mcardei@fau.edu>
Cc:Christopher Beetle <cbeetle@fau.edu>
Subject:RE: CEECS - Course Perquisite Changes

Dear Dr. Zhuang:

Thank you so much for the clarification. Please attach my memo as it is written. The UGPC and UGC will take a note and I am sure they will vote your items into the consent agenda. As you say, these are most minor changes so they should not affect our program anyway.

Thank you.

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:Hanqi Zhuang <zhuang@fau.edu>
Sent:Monday, November 30, 2020 9:31 AM
To:Tamara Dinev <tdinev@fau.edu>; Mihaela Cardei <mcardei@fau.edu>
Cc:Christopher Beetle <cbeetle@fau.edu>
Subject:Re: CEECS - Course Perquisite Changes

Hello Tamara,

Thank you for taking time to review the proposals. Regarding the 10 items on the agenda, these are CS courses that have been in our catalog for a long time. The only proposed change is a change of prerequisites to "Graduate Standing" or "None", that honestly, I never thought it would need that much discussion. We do not change the "registration control" field, therefore, the pool of students that can take the courses stay the same. ITOM students in our joint programs (MSITM program and Big Data Certificate) were always able to select these courses as electives and will always be.

Please note that we are not proposing a new course, so let's keep the conversation focused to the change of prerequisites.

The extract that you provided as a memo is incomplete. Here is the full memo for your information (<http://www.fau.edu/uupc/documents/materials/2020/october-12-2020/ai-math-approval.pdf>).

Of course, CEECS will not object to any change or elimination by ITOM to the prerequisites of the ITOM courses that are listed in our joint MSITM program and Big Data Certificate.

Thanks,

Hanqi

From:Tamara Dinev <tdinev@fau.edu>
Sent:Monday, November 30, 2020 9:14 AM
To:Hanqi Zhuang <zhuang@fau.edu>; Mihaela Cardei <mcardei@fau.edu>
Cc:Christopher Beetle <cbeetle@fau.edu>
Subject:RE: CEECS - Course Perquisite Changes

Dear Dr. Zhuang:

ITOM is not the only department that writes conditions in the supporting memo for your curriculum items. For example, the Math department from College of Science wrote the following in their support memo:

“Proposed CAP 4612: Within the SUS, Applied Machine Learning is already taught under an STA prefix (see STA 4634/5635 at FSU), **so we would seek confirmation that this course will not be used to block mathematics/statistics courses in (applied) machine learning. If CAP 4612 will not be used to block mathematics/statistics courses in (applied) machine learning, we have no concerns.**”

ITOM and your department has a very complicated interdisciplinary curriculum for their MSITM program. It is then understandable that the prerequisite change of your 20 courses may affect the program.

We support your curriculum changes. We just want be sure that the changes you bring will not cause you blocking our future changes for our courses.

If the Math memo is good and has gone through, then our is written in the same spirit and should be attached to your documentation for the courses changes below.

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:Hanqi Zhuang <zhuang@fau.edu>
Sent:Monday, November 30, 2020 8:53 AM
To:Tamara Dinev <tdinev@fau.edu>; Mihaela Cardei <mcardei@fau.edu>
Cc:Christopher Beetle <cbeetle@fau.edu>
Subject:Re: CEECS - Course Perquisite Changes

Dear Tamara,

Thank you very much for kindly sending the second time your response. The ITOM memo, though support the suggestions of the University Steering Committee to remove the prerequisites of the listed courses for graduate courses, attached many conditions, which we think are premature at the best.**Please simple state either ITOM support or do not support the changes.**

If you do not support changes, we will revise the statement to exclude ITOM students from the blank waive of prerequisites of these courses.

"Graduate Standing, excluding students from ITOM."

Thanks,
Hanqi

From:Tamara Dinev <tdinev@fau.edu>
Sent:Monday, November 30, 2020 8:38 AM
To:Mihaela Cardei <mcardei@fau.edu>; Hanqi Zhuang <zhuang@fau.edu>
Cc:Christopher Beetle <cbeetle@fau.edu>
Subject:FW: CEECS - Course Perquisite Changes

Dear Dr. Cardei, Dr. Zhuang:

I sent you the ITOM memo, I am resending it just in case you have not received it. I am also cc-ing Chris Beetle.

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:Tamara Dinev
Sent:Monday, November 23, 2020 11:04 AM
To:Mihaela Cardei <mcardei@fau.edu>
Cc:Hanqi Zhuang <zhuang@fau.edu>; Daniel Gropper <dgropper@fau.edu>; Paul Hart <hart@fau.edu>
Subject:RE: CEECS - Course Prerequisite Changes
Importance:High

Dear Dr. Cardei, Dr. Zhuang:

Removal of prerequisites may seem a small change to you, as you stated in the UGC meeting on November 13. However, the Course change form, in its current format, has a field that needs to be filled regardless how big or small the change you think is (the word ANY is highlighted in the form). This is at least the interpretation of the current form at the College of Business Undergraduate and Graduate Councils. For that reason, they always ask ITOM to consult you, regardless how small change we want.

*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.*

We believe that it is CEECS decision how they will provide the rigor in their curriculum just as we will make our own decisions on ISM courses.

Removing of the prerequisites of your courses should not be interpreted as giving you the authority to teach these courses to Business students in all programs, and thus block our future attempts to develop our curriculum.

With this understanding, we have no concerns about each of the courses **provided** that not any of them will be used to block and object to an existing/potential ISM course in the same domain, per the table below:

Current CEECS courses	Potential existing/hypothetical ITOM courses
CEN 5035 Software Engineering	A graduate course in Business Software Development, corresponding to the same title of 4 ISM undergraduate courses
CAP 5615 Introduction to Neural Networks	NA
CAP 6315 Social Networks and Big Data Analytics	ISM 6555 Social Media and Web Analytics
CAP 6619 Deep Learning	Deep Learning for Business with IBM Watson
CAP 6640 Natural Language Processing	NA
CAP 6673 Data Mining and Machine Learning	ISM 6136 Data Mining and Predictive Analytics
CAP 6776 Information Retrieval	NA
CAP 6777 Web Mining	ISM 6555 Social Media and Web Analytics ISM 6136 Data Mining and Predictive Analytics
CEN 6405 Computer Performance Modeling	Information Systems Performance Modeling for IT Managers
CEN 5086 Cloud Computing	Organizational aspects of Cloud Computing

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-YAAAAI&hl=en>

From: Mihaela Cardei <mcardei@fau.edu>
Sent: Wednesday, November 11, 2020 7:31 AM
To: Tamara Dinev <tdinev@fau.edu>
Cc: Hanqi Zhuang <zhuang@fau.edu>
Subject: RE: CEECS - Course Prerequisite Changes

Hello Dr. Dinev,

I am following up on the emails regarding the prerequisite changes. As noted in my original email, these items (prerequisite changes) will be discussed next in the UGC meeting on Friday November 13th from 10:00 AM.

As mentioned previously by Dr. Zhuang, the decision on which courses will change the prerequisites went through a rigorous process in the department. Taking the Business students in the MSITM program as an example, our program coordinator must manually overwrite the prerequisites every time a student registers for a CS class.

In the UGPC meeting on November 4th it was acknowledged that changing the prerequisites is the responsibility and decision of the department, and we were asked to notify other departments with joint programs in case that their students are affected in any way by this change.

With regards to our joint programs, these prerequisite changes will facilitate the registration of the ITOM students in the CS classes. ITOM students decide their CS courses in close consultation with the program advisor. On our side, we believe that these prerequisite changes do not affect the Business students taking CS courses in any way, but of course we would like to confirm with you.

We are looking forward to your reply, please let us know if you have any objections to these prerequisite changes from the prospect of the ITOM students taking CS courses for our joint programs.

I will have to submit this email communication to UGC tomorrow the latest, in preparation for the meeting on Friday.

Best regards,
Mihaela

From:Tamara Dinev <tdinev@fau.edu>
Sent:Monday, November 9, 2020 11:14 AM
To:Mihaela Cardei <mcardei@fau.edu>
Subject:RE: CEECS - Course Prerequisite Changes

Thank you, Mihaela

Best Regards:
Tamara

=====

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:Monday, November 9, 2020 11:11 AM
To:Tamara Dinev <tdinev@fau.edu>
Cc:Hanqi Zhuang <zhuang@fau.edu>
Subject:Re: CEECS - Course Prerequisite Changes

Syllabi are attached.

From:Hanqi Zhuang <zhuang@fau.edu>
Sent:Monday, November 9, 2020 11:00 AM
To:Mihaela Cardei <mcardei@fau.edu>; Tamara Dinev <tdinev@fau.edu>
Subject:Re: CEECS - Course Prerequisite Changes

Dear Tamara,

Thank you very much for quickly getting back to us. Due to a variety of reasons, mainly the inconsistency of the course names/numbers (of the related prerequisite courses) used all over the world, our graduate students have had difficulties to register courses. Our graduate advisor must override many cases due to outdated prerequisites. The last month, the department's graduate programs committee asked the faculty to give their inputs about prerequisites of their graduate courses. Our approach was that we kept the prerequisites intact if these courses did need other prerequisites beyond CEECS graduate Standing. For the rest, we changed the prerequires to a general statement as follows:

Graduate standing for CEECS graduate students and instructor's approval for others.

The UGPC discussed this and recommended that it would make more sense to remove "CEECS" and "instructor's approval for other majors." They also stated that graduate standing was implicitly required for 6000 level courses. They specifically pointed out those courses which were related to interdisciplinary data science programs. Their rationale was that those graduate students in the data science programs should have sufficient background to take the listed courses. They advised us to go back to get your opinions, and that is the story.

Your opinion on how to move forward with this is important to us.

Meanwhile, have a wonderful week!

Hanqi

Hanqi Zhuang, Ph.D.
Professor and Chair
EE 403A
Department of Computer & Electrical Engineering & Computer Science
Florida Atlantic University
Boca Raton, FL 33431
561-297-3413
<http://www.ceecs.fau.edu/>

From: Tamara Dinev <tdinev@fau.edu>
Sent: Monday, November 9, 2020 11:00 AM
To: Mihaela Cardei <mcardei@fau.edu>
Cc: Hanqi Zhuang <zhuang@fau.edu>
Subject: RE: CEECS - Course Prerequisite Changes

Thank you, Mihaela:

I will wait for the syllabi of these courses and the rationale

Best Regards:
Tamara

=====
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=YH8OZ-YAAAAI&hl=en>

From: Mihaela Cardei <mcardei@fau.edu>
Sent: Monday, November 9, 2020 10:32 AM
To: Tamara Dinev <tdinev@fau.edu>
Cc: Hanqi Zhuang <zhuang@fau.edu>
Subject: Re: CEECS - Course Prerequisite Changes

Hi Tamara,

here are the course titles. Hanqi will follow up on the rationale for prerequisite change.

CEN 5035 Software Engineering
CAP 5615 Introduction to Neural Networks
CAP 6315 Social Networks and Big Data Analytics
CAP 6619 Deep Learning
CAP 6640 Natural Language Processing
CAP 6673 Data Mining and Machine Learning
CAP 6776 Information Retrieval
CAP 6777 Web Mining
CEN 6405 Computer Performance Modeling
CEN 5086 Cloud Computing

Best,
Mihaela

From: Tamara Dinev <tdinev@fau.edu>
Sent: Monday, November 9, 2020 10:18 AM
To: Mihaela Cardei <mcardei@fau.edu>
Cc: Hanqi Zhuang <zhuang@fau.edu>
Subject: RE: CEECS - Course Prerequisite Changes

Dear Dr. Cardei:

The ITOM department would like to see the list of the courses below with their titles (otherwise I have to go personally and retrieve each one of them from the catalog and create my own table) as well as their syllabi attached. Please also provide a rationale for your requested changes as they seem to compromise the rigor of your program which is supposed to be very technical as it prepares the future engineers of this nation.

Best Regards:
Tamara

=====
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-YAAAAI&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 Prerequisite 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

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.

KW

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 <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=YH8OZ-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