

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>COURSE CHANGE REQUEST</b> <b>Undergraduate Programs</b>		UUPC Approval <u>3-29-21</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	<b>Department</b> Computer & Electrical Eng & Comp Sci <b>College</b> Engineering & Comp Science		
<b>Current Course Prefix and Number</b> CEN 4400		<b>Current Course Title</b> Introduction to Computer Systems Performance Evaluation	
<i>Syllabus must be attached for ANY changes to current course details. See <a href="#">Checklist</a>. Please consult and list departments that may be affected by the changes; attach documentation.</i>			
<b>Change title to:</b>  <b>Change prefix</b> <b>From:</b> _____ <b>To:</b> _____ <b>Change course number</b> <b>From:</b> _____ <b>To:</b> _____ <b>Change credits*</b> <b>From:</b> _____ <b>To:</b> _____ <b>Change grading</b> <b>From:</b> _____ <b>To:</b> _____ <b>Change WAC/Gordon Rule status**</b> <b>Add</b> <input type="checkbox"/> <b>Remove</b> <input type="checkbox"/> <b>Change General Education Requirements***</b> <b>Add</b> <input type="checkbox"/> <b>Remove</b> <input type="checkbox"/> <small>*Review <a href="#">Provost Memorandum</a></small> <small>**WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See <a href="#">WAC Guidelines</a>.</small> <small>***General Education criteria must be indicated in syllabus and approval attached to this form. See <a href="#">GE Guidelines</a>.</small>		<b>Change description to:</b>  <b>Change prerequisites/minimum grades to:</b> (EEE 4541 OR STA 4821 or STA 2023 or equivalent) AND COP 3014  <b>Change corequisites to:</b>  <b>Change registration controls to:</b>  Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).	
<b>Effective Term/Year for Changes:</b> Fall 2021		<b>Terminate course? Effective Term/Year for Termination:</b>	
<b>Faculty Contact/Email/Phone</b> Hari Kalva, hkalva@fau.edu, 561-297-0511			
<b>Approved by</b> Hanqi Zhuang Department Chair _____ College Curriculum Chair <u>Dan Meeroff</u> College Dean <u>Frederick Bloetscher</u> UUPC Chair <u>Jerry Haky</u> Undergraduate Studies Dean <u>Edward Pratt</u> UFS President _____ Provost _____		<b>Date</b> _____ <u>3-18-21</u> <u>3-18-21</u> <u>3-29-21</u> <u>3-29-21</u> _____ _____	

Email this form and syllabus to [mjenning@fau.edu](mailto:mjenning@fau.edu) seven business days before the UUPC meeting.

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

<b>1. Course title/number, number of credit hours</b>	
Intro to Computer Systems Performance Evaluation CEN 4400-001 CRN 13730, 002 CRN 13731	3 credit hours
<b>2. Course prerequisites, corequisites, and where the course fits in the program of study</b>	
(EEE 4541 OR STA 4821 or STA 2023 or equivalent) AND COP 3014	
<b>3. Course logistics</b>	
<p><i>Term:</i> Spring 2020  This is a classroom lecture course with DL sections.  <i>Class location and time:</i> Tuesday-Thursday 11:00 AM -12:20 PM, CM 128</p>	
<b>4. Instructor contact information</b>	
<i>Instructor's name</i> <i>Office address</i> <i>Office Hours</i> <i>Contact telephone number</i> <i>Email address</i>	Dr.Taghi M Khoshgoftaar., Professor Engineering East Bldg., Room 511 Tuesday 2:30 – 4:00 PM and Thursday 2:30 – 4:00 PM 561-297-3994 khoshgof@fau.edu
<b>5. TA contact information</b>	
<b>6. Course description</b>	
Principles of the quantitative evaluation techniques for computer system hardware and software, emphasizing the establishment and analysis of performance criteria. Deterministic and stochastic methods will be discussed.	
<b>7. Course objectives/student learning outcomes/program outcomes</b>	
<i>Course objectives</i>	To enable students to understand basic concept of performance modeling.
<i>BSCS program outcomes</i>	Proficiency in the area of computer systems performance analysis and Evaluation.
<b>8. Course evaluation method</b>	
Assignments worth 50% total and two exams worth 50% total.	
<b>9. Course grading scale</b>	
Grading Scale: 92 and above: "A", above 88 and below 92: "A-", above 85 but below 89: "B+", 82-85: "B", 79-81: "B-", above 75 but below 79: "C+", 73-75: "C", 70-72: "C-", above 65 but below 70: "D+", 60-65: "D", above 55 but below 60: D-, 55 and below: "F."	
<b>10. Policy on makeup tests, late work, and incompletes</b>	
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.	

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

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

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

**13. 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/](http://www.fau.edu/sas/)

**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 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](http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf)

**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. Required texts/reading**

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

**17. Supplementary/recommended readings**

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

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**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. One-factor experiments
9. Two-factor full factorial design
10. Case studies

Assignments are given starting on 1/16/20. Exams are given on 03/03/20 and 4/23/20.