

 <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> Comp & Electrical Eng and Comp Science <b>College</b> Engineering and Comp Science		
<b>Current Course Prefix and Number</b> COP 4610		<b>Current Course Title</b> Computer Operating Systems	
<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> Add <input type="checkbox"/> Remove <input type="checkbox"/> <b>Change General Education Requirements***</b> Add <input type="checkbox"/> Remove <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> COP 3530 or COP 3410  <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			
<b>Approved by</b> Hanqi Zhuang Department Chair _____ College Curriculum Chair _____ College Dean _____ UUPC Chair _____ Undergraduate Studies Dean Edward Pratt UFS President _____ Provost _____		Digitally signed by Hanqi Zhuang Date: 2021.01.17 15:08:28 -05'00' _____ _____ _____ _____ _____	
		<b>Date</b> <u>3-10-21</u> <u>3/11/21</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.

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<b>1. Course title/number, number of credit hours</b>	
Computer Operating Systems – COP 4610 001 and 002 CRN 15155 and 16624	3 credit hours
<b>2. Course prerequisites, corequisites, and where the course fits in the program of study</b>	
Prerequisites: COP 3530 or COP 3410	
<b>3. Course logistics</b>	
Term: spring 2021– 15155 and 16624 Class location and time: Fully online course	
<b>4. Instructor contact information</b>	
<i>Instructor's name</i> <i>Office address</i> <i>Office Hours</i> <i>Email address</i>	Mrs. Tami Sorgente Engineering East (EE-96) Bldg., Room 430 Online WebEx sessions will be announced in Canvas and by appointment; please send an email via Canvas or to <a href="mailto:tsorgent@fau.edu">tsorgent@fau.edu</a> with your FAU email. <a href="mailto:tsorgent@fau.edu">tsorgent@fau.edu</a>
<b>5. TA contact information</b>	
<i>TA's name</i> <i>Office address</i> <i>Office Hours</i> <i>Contact telephone number</i> <i>Email address</i>	TBD
<b>6. Course description</b>	
An introduction to what makes up a digital computer operating system, includes developing an understanding of interrupts, interrupt handling, processes, process management, file and device management, and other features of control programs. A team design project is required.	
<b>7. Course objectives/student learning outcomes/program outcomes</b>	
<i>Course objectives</i>	To evaluate the fundamental concepts applied in modern operating systems, including process management, memory organization and management, and I/O management To apply the design of collaborative processes and threads and their synchronization using semaphores To evaluate the problem of deadlock and assess their solutions To develop knowledge of basic principles of I/O management To develop simulation program for evaluation of CPU schedulers
<i>Student learning outcomes &amp; relationship to ABET 1-7 outcomes</i>	An ability to communicate effectively with a range of audiences in a variety of professional contexts. (Communications) An ability to function effectively as a member or leader of a team that establishes goals, plans tasks, meets deadlines, creates a collaborative

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	<p>and inclusive environment and engages in activities appropriate to the program's discipline. (Teamwork)</p> <p>An ability to apply engineering/computer science theory and hardware/software development fundamentals to develop and conduct appropriate experimentation, analyze and interpret data, and use computing/engineering judgment produce engineering/computing-based solutions/conclusions. (Experimentation and/or simulation)</p>
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**8. Course evaluation method**

500 point scale	Points
Exams	135 (27%)
CPU scheduler programming assignment	60 (12%)
Case study group assignments	45 (9%)
Case study group project presentation	20 (4%)
Case study group project evaluation/peer review	20 (4%)
Discussion boards	35 (7%)
HW assignments	105 (21%)
Quizzes	80 (16%)

**9. Course grading scale**

Total points	500-465	464-450	449-435	434-415	414-400	399-385	384-350	349-335	334-315	314-300	< 300
	93%	90%	87%	83%	80%	77%	70%	67%	63%	60%	
grade	A	A -	B +	B	B -	C +	C	D +	D	D -	F

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

Late Assignments Policy Late work is not acceptable. All projects will have a Final due date, assignments will be posted well in advance and students may submit assignments early. No assignments will be accepted after the Final due date.

Make-up Policy for Tests: 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.

Incomplete Grade Policy 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**

- Hardware:
- Computer that will run required software
- Software:
- Microsoft 365 Suite
  - Reliable web browser (recommended Chrome)

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- Canvas mobile app: Download instructions for iOS device or Android device
- Adobe Reader
- Adobe Flash Player
- Canvas
- VMWARE
- An IDE to complete the programming assignment
- Respondus Lockdown Browser and Webcam

Reading assignments will be given for each lecture – see the Class Notes section on Canvas for topics covered in class and suggested reading. There will be one programming simulation with a report, a case study term project and three exams. Details about exams, assignments and projects will be available on Canvas.

Late submissions will not be accepted for grading.

All assignments are due by 11:59 PM on the due date. However, it is recommended that you submit your work by 9:00 pm as no assistance will be provided after 9:00 pm should you encounter any technical difficulties.

## 12. Classroom etiquette policy

### Netiquette

Due to the casual communication common in the online environment, students are sometimes tempted to relax their grammar, spelling, and/or professionalism. Please remember that you are adult students and professionals—your communication should be appropriate.

For more in-depth information, please see the FAU statement on Netiquette.

Classroom Etiquette/Disruptive Behavior Policy Statement Disruptive behavior is defined in the FAU Student Code of Conduct as "... activities which interfere with the educational mission within classroom." Students who behave in the face-to-face and/or virtual classroom such that the educational experiences of other students and/or the instructor's course objectives are disrupted are subject to disciplinary action. Such behavior impedes students' ability to learn or an instructor's ability to teach. Disruptive behavior may include, but is not limited to: non-approved use of electronic devices (including cellular telephones); cursing or shouting at others in such a way as to be disruptive; or, other violations of an instructor's expectations for classroom conduct. For more information, please see the FAU Office of Student Conduct

Announcements: You are responsible for reading all announcements posted by the instructor.

Check the course announcements each time you log in.

Email: You are responsible for reading all of your course email and responding in a timely manner.

Course-Related Questions: Post course-related questions to the FAQ discussion forum. This allows other participants with the same question to benefit from the responses. Also, make sure you review this forum prior to posting a question; it may have already been asked and answered in previous posts.

### Instructor's Plan for Classroom Response Time & Feedback

Email Policy: Except for Saturdays, Sundays, and holidays, instructor typically, will respond to messages within 48 hours.

Assignment Feedback Policy: Feedback will be provided on submitted assignments within one week of the submission date.

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Some assignments may require a longer review period, which will be communicated to students by the instructor.

Course-Related Questions: Except Saturdays, Sundays, and holidays, questions will, generally, be answered by instructors within 48 hours.

**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/](http://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](#). If your college has particular policies relating to cheating and plagiarism, state so here or provide a link to the full policy—but be sure the college policy does not conflict with the University Regulation.

**17. Required texts/reading**

To reduce costs for our students, we strongly encourage you to explore the adoption of open educational resources (OER), textbooks and other materials that are freely accessible. We also encourage you to clearly state in the syllabus if course materials are available on reserve in the Library.

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Operating System Concepts, 10th Edition, Wiley  
Abraham Silberschatz, Greg Gagne, Peter B. Galvin  
ISBN: 978-1-119-32091-3  
Apr 2018

**18. Supplementary/recommended readings**

N/A

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

1. Introduction to Operating System Concepts
2. Operating System Design
3. Process Concept
4. Processes and Scheduling
5. CPU scheduling
6. More CPU Scheduling
7. Interprocess communication and Thread Concept
8. Interprocess communication and Synchronization
9. Process Collaboration and Synchronization
10. Deadlocks
11. Main Memory Introduction
12. Main Memory and Virtual Memory
13. Virtual Memory Techniques
14. Input/ output and disk scheduling
15. I/O Systems and Case studies

This course uses Canvas: <http://canvas.fau.edu> for notes, assignments, announcements and all course information (restricted to enrolled students)  
Students need to check FAU email regularly

The last day to drop and receive a "W" is March 19, 2021.