

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW COURSE PROPOSAL</b> <b>Graduate Programs</b>		UGPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	<b>Department</b> Computer and Electrical Engineering and CS <b>College</b> Engineering and Computer Science <i>(To obtain a course number, contact <a href="mailto:erudolph@fau.edu">erudolph@fau.edu</a>)</i>		
<b>Prefix</b> COP <b>Number</b> 5675	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i> <b>Lab Code</b>	<b>Type of Course</b> <div style="border: 1px solid red; padding: 2px;">Lecture</div>	<b>Course Title</b> Mobile App Development
<b>Credits</b> <i>(Review Provost Memorandum)</i> 3	<b>Grading</b> <i>(Select One Option)</i> <b>Regular</b> <input checked="" type="radio"/> <b>Sat/UnSat</b> <input type="radio"/>	<b>Course Description</b> <i>(Syllabus must be attached; see <a href="#">Guidelines</a>)</i> This course provides study and practice of the lifecycle of mobile app development. Class covers architecture, design and engineering issues, techniques, and methodologies for mobile application development. Students will learn a framework for mobile app development and work on a practical project where they can demonstrate their newly acquired skills.	
<b>Effective Date</b> <i>(TERM &amp; YEAR)</i> Fall 2020		<b>Prerequisites</b> A college-level programming course.	<b>Corequisites</b>  <b>Registration Controls</b> <i>(Major, College, Level)</i> Graduate and Senior students.
<b>Prerequisites, Corequisites and Registration Controls are enforced for all sections of course</b>			
<b>Minimum qualifications needed to teach course:</b> Member of the FAU graduate faculty and has a terminal degree in the subject area (or a closely related field.)		<b>List textbook information in syllabus or here</b> Beginning Flutter: A Hands On Guide to App Development, Marco L. Napoli; ISBN-13: 978-1119550822 (Wrox, 2019) Flutter in Action, Eric Windmill; ISBN-13: 978-1617296147 (Manning 2020)	
<b>Faculty Contact/Email/Phone</b> Oge Marques/ <a href="mailto:omarques@fau.edu">omarques@fau.edu</a> /561-297-3857		<b>List/Attach comments from departments affected by new course</b> NA	

<b>Approved by</b> Department Chair _____ Hanqi Zhuang College Curriculum Chair _____ Ramesh Teegavarapu College Dean _____ Mihaela Cardei UGPC Chair _____ Paul R. Poluso UGC Chair _____ Paul R. Poluso Graduate College Dean _____ <i>[Signature]</i> UFS President _____ Provost _____	<b>Date</b> _____ 2/24/2020 _____ 2/27/2020 _____ 2/27/2020 _____ 03/27/2020 _____ 03/27/2020 _____ 8ED423C9-A9FA-4DA0-B0B9-C422E945C5E7 7852D92B-2B34-43D3-B364-BB8C8A58EE19 Date: 2020.03.30 16:40:18 -0400
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Email this form and syllabus to [UGPC@fau.edu](mailto:UGPC@fau.edu) one week before the UGPC meeting.

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

<b>1. Course title/number, number of credit hours</b>	
Mobile App Development - CAP 5675	3 credit hours
<b>2. Course prerequisites, corequisites, and where the course fits in the program of study</b>	
Prerequisites: A college-level programming course.	
<b>3. Course logistics</b>	
Term: Fall 2020 Class dates and times: TBA Class location: TBA	
<b>4. Instructor contact information</b>	
Instructor's name	Dr. Oge Marques
Office address	EE 441 (Engineering East (96) building)
Office Hours	TBD
Contact telephone number	561-297-3857
Email address	<a href="mailto:omarques@fau.edu">omarques@fau.edu</a>
<b>5. TA contact information</b>	
TA's name	N/A
Office address	
Office Hours	
Contact telephone number	
Email address	
<b>6. Course description</b>	
This course provides study and practice of the lifecycle of a mobile app development. Class covers architecture, design and engineering issues, techniques, and methodologies for mobile application development. Students will learn a framework for mobile app development and work on a practical project where they can demonstrate their newly acquired skills.	
<b>7. Course objectives/student learning outcomes/program outcomes</b>	
Course objectives	By the end of the course, students should be able to: <ul style="list-style-type: none"> <li>1. Demonstrate understanding of the most important technical aspects of mobile app development.</li> <li>2. Be competent with the characterization and architecture of mobile applications.</li> <li>3. Demonstrate understanding enterprise scale requirements of mobile applications.</li> <li>4. Be competent with designing and developing mobile applications using one application development framework.</li> <li>5. Improve their ability to work independently on creative and novel projects.</li> </ul>
<b>8. Course evaluation method</b>	



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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**

Required Books:

1. **Beginning Flutter: A Hands On Guide to App Development**  
Author: Marco L. Napoli; ISBN-13: 978-1119550822 (Wrox, 2019)
2. **Flutter in Action**  
Author: Eric Windmill; ISBN-13: 978-1617296147 (Manning, 2020)

**18. Supplementary/recommended readings**

Additional reading materials will be provided during the semester.

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

Week	Plan	Assignments due
1	Introduction to course contents, goals, and methodology Mobile app development: the basics	
2	Getting started with Flutter and Dart	
3	Flutter and Dart (cont'd)	
4	Flutter and Dart (cont'd)	Online quiz 1
5	Flutter and Dart (cont'd)	Hands-on Assignment 1
6	Flutter UI	
7	Flutter UI (cont'd)	
8	Flutter Routing	Hands-on Assignment 2
9	Flutter Routing (cont'd)	
10	Flutter State Management	
11	Flutter State Management (cont'd)	
12	Async Dart and Flutter	
13	Working with Data: HTTP, Firestore, JSON	
14	Working with Data: HTTP, Firestore, JSON (cont'd)	
15	Testing Flutter Apps	Online quiz 2
16	Final Project Discussions Mobile App Development market: outlook and predictions	
17	<b>Final Project Presentations including Prototype Demo</b>	Final project, report, and PPT

GRADUATE COLLEGE

FEB 27 2020