FLORIDA ATLANTIC

COURSE CHANGE REQUEST Graduate Programs

Department CEECS

UGPC Approval
UFS Approval
SCNS Submittal
Confirmed
Banner
Catalog

ATLANTIC	P			Banner	
UNIVERSITY	College	10	N. 1	Catalog	
	Engineering an			Catalog	
Current Course	CAD 6040	Current Co			
Prefix and Number CAP 6018 Multi		Multimedia	dia Programming		
Syllabus must be attached for ANY changes to current course details. See <u>Guidelines</u> . Please consult and list departments that may be affected by the changes; attach documentation.					
Change title to:			Change description to:		
Change prefix					
From:	To:		Change prerequisites	minimum grades to:	
Change course i	number		Graduate standing for CEECS students, and instructor's approval for students from other major.		
From:	To:				
Change credits*		Change corequisites to:			
From:	To:				
Change grading					
From:	From: To:		Change registration controls to:		
Academic Servi	ce Learning (ASL) **				
Add	Remove				
* 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			Terminate course? Effective Term/Year		
for Changes:	Spring 20	21	for Termination:		
Faculty Contact/Email/Phone Hanqi Zhuang/zuang@fau.edu/ 297-3413					
Approved by	Hanqi Zhuang Digitally signed by Hanqi Zhuang Date: 2020.10.21 15:34:11 -04'00' Date				
Department Chair College Curriculum Chair Francisco Presuel-Moreno Department Chair College Curriculum Chair					
Digitally signed by Mihaela Cardei Digitally signed by Mihaela Cardei or Florida Adamic Liniversity, ou,			2020.10.22 11:42:10 -04'00'	10/25/2020	
donege Dean					
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.

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

1. Course title/number, number	per of credit hours				
Multimedia Programming/ CAP 6018 3 credit hours					
2. Course prerequisites, co-requisites, and where the course fits in the program of study					
Prerequisites: Graduate standing for CEECS students, and instructor's approval for students from other major.					
3. Course logistics					
Term: Boca Campus,					
4. Instructor contact informa	tion				
Instructor's name Office address Office Hours Contact telephone number Email address 5. TA contact information					
5. 1A contact information					
N/A					
6. Course description					
This course provides background and experience in efficient multimedia development. Students develop multimedia applications, such as media players.					
7. Course objectives/student learning outcomes/program outcomes					
Course objectives	Data parallelism Parallel architectures Multi-threading Parallel programming Performance evaluati	•			
Student learning outcomes & relationship to ABET a-k objectives	N/A				
8. Course evaluation method					
About 8 assignments (80%) + project (20%)					
9. Course grading scale					
Grading Scale: 90 and above: "A", 87-89: "A-", 83-86: "B+", 80-82: "B", 77-79: "B-", 73-76: "C+", 70-72: "C", 67-69: "C-", 63-66: "D+", 60-62: "D", 51-59: "D-", 50 and below: "F."					
10. Policy on makeup tests, late work, and incompletes					

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Assignments should be submitted on Canvas by the due date

Incomplete grades will not be given unless there is documented evidence of medical or otherwise serious emergency.

11. Special course requirements

Access to a laptop/PC where you can install and use software development tools

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.

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.

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Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001.

15. Required reading

16. Supplementary/recommended readings

The Software Optimization Cookbook: High Performance Recipes for IA 32 Platforms by Richard Gerber, Aart J. C. Bik, Kevin Smith, Xinmin Tian

Software Optimization for High Performance Computing: Creating Faster Applications by Isom Crawford, Kevin Wadleigh

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

- Software optimization 1. 2. 3. 4. 5. 6. 7. 8.

- Intel software development tools and SDKs
 Video and image processing basics
 Performance analysis
 Open MP/Multi-core programming
 SIMD programming (instruction level parallelism)
 Multithreaded Programming
 Many Integrated Core (MIC) architecture Intel Xeon Phi
- OpenCL