

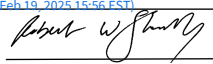
 FLORIDA ATLANTIC UNIVERSITY	COURSE CHANGE REQUEST Graduate Programs		UGPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner _____ Catalog _____
	Department Electrical Engineering and Computer Science College Engineering and Computer Science		
Current Course Prefix and Number CAP 6617		Current Course Title Sparse Learning	
Syllabus must be attached for ANY changes to current course details. See Template . 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: CAP 5625 Change corequisites to: Change registration controls to: Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade.	
Effective Term/Year for Changes: Summer 2025		Terminate course? Effective Term/Year for Termination:	
Faculty Contact/Email/Phone Dr. Masoud Jahandar Lashaki, Graduate Program Director mjahandarlashaki@fau.edu			
Approved by Department Chair <u>Hani Kalva</u> College Curriculum Chair <u>Francisco Presuel-Moreno</u> College Dean <u>Raquel Assis</u> UGPC Chair <u></u> UGC Chair <u></u> Graduate College Dean <u></u> UFS President _____ Provost _____		Date 1/15/2025 1/21/2025 2/18/2025 02/19/2025 02/19/2025 02/19/2025 _____ _____	

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

Sparse Learning (CAP 6617) 3 credits

Prerequisite: CAP 5625

This course introduces new concepts, theory, algorithms and applications of sparse representation and modeling, and their relationship with deep learning. Topics covered include mathematical preliminaries, L1 optimization, pursuit algorithms, sparse representation classifiers, sparse dictionary learning, sparse deep learning and applications.