| | **COURSE CHANGE REQUEST**<br>**Graduate Programs** | UGPC Approval _____<br>UFS Approval _____<br>SCNS Submittal _____<br>Confirmed _____<br>Banner _____<br>Catalog _____ |
|---|---|---|
| **FLORIDA ATLANTIC UNIVERSITY** | **Department**<br><br>**College** | |

| *Current* Course Prefix and Number | *Current* Course Title |
|---|---|

*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 description to:** |
| **Change prefix**<br>     **From:**          **To:** | |
| | **Change prerequisites/minimum grades to:** |
| **Change course number**<br>     **From:**          **To:** | |
| **Change credits***<br>     **From:**          **To:** | **Change corequisites to:** |
| **Change grading**<br>     **From:**          **To:** | **Change registration controls to:** |
| **Academic Service Learning (ASL) ****<br>     **Add**          **Remove** | |
| * See Definition of a Credit Hour.<br>** 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 for Changes:** | **Terminate course? Effective Term/Year for Termination:** |
|---|---|

**Faculty Contact/Email/Phone**

| *Approved by* | | *Date* | |
|---|---|---|---|
| Department Chair | *Haikalva* | | 1/15/2025 |
| College Curriculum Chair | *Francisco Presuel-Moreno* | | 1/21/2025 |
| College 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.

**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.