TATT	NEW/CHANGE PROGR	AM REQUEST	UGPC Approval
	•	_	UFS Approval
	Graduate Prog		Banner
FLORIDA ATLANTIC	Department CESCoS Dean's Office (Into	erdisciplinary)	Catalog
UNIVERSITY	College Science		
Program Name		New Program*	Effective Date
Neuroscience Ce	ertificate		(TERM & YEAR)
		✓ Change Program*	Fall 2021
Please explain	the requested change(s) and offer ra	ationale below or on an	attachment.
We are requesti been changed.	ng to update the names listed for two exi Please see the updated catalog entry att	sting courses in our progra ached.	m whose titles have recently
*All new programs	and changes to existing programs must be acco	mpanied by a catalog entry sho	owing the new or proposed changes.
Faculty Contact/	Email/Phone	Consult and list department the change(s) and attack	ents that may be affected by
William Kalies <w< td=""><td>kalies@fau.edu> 7-1107</td><td>the change(s) and attach</td><td>i documentation</td></w<>	kalies@fau.edu> 7-1107	the change(s) and attach	i documentation
Approved by	- 10		Date
Department Chair	gary W Perry		
College Curricului		ate: 2021.03.15 11:59:11 -04'00'	
College Dean —	William Dovid Kalie		03/15/21
UGPC Chair —			
UGC Chair —			
Graduate College	Dean		
UFS President			

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

Provost

Neuroscience Certificate

The Neuroscience certificate program provides students with an understanding of the essential principles of neuroscience and elective concentrated study in theoretical and dynamical, molecular and cellular, cognitive and behavioral neuroscience. Available to master's and doctoral students, the program is administered through the College of Science's Dean's Office and consists of a multidepartmental curriculum comprised of courses from the College of Medicine, College of Science and the College of Engineering and Computer Science.

Admission Requirements

- 1. Acceptance into a master's or doctoral training program in any of the following departments or programs: Biological Sciences, Biomedical Sciences, Chemistry and Biochemistry, Complex Systems and Brain Sciences, Electrical Engineering, Integrative Biology, Mathematical Sciences, Physics or Psychology.
- 2. Approval from the certificate program coordinator prior to taking courses to satisfy the 14-credit certificate requirement.

Degree Requirements

The Neuroscience certificate consists of 14 credits. It requires the successful completion (at least a B+ average) of four courses from the tables below plus satisfactory achievement in two semesters of the 1-credit Neuroscience Colloquium. Students are also expected to participate in the FAU Neuroscience Research Day held each spring semester.

Required Courses (6 credits)		
Cellular and Molecular NeuroscienceNeuroscience 1	PSB 6345	3
Systems and Integrative NeuroscienceNeuroscience 2	PSB 6346	3

Elective Courses

Select one course from any two of the four areas listed below for a minimum of 6 credits: Theoretical and Dynamical Neuroscience, Cognitive Neuroscience, Molecular and Cellular Neuroscience and Behavioral Neuroscience. Note that one of the elective courses is required to be from outside the student's "home" program area. This requirement ensures that the student gains an interdisciplinary exposure to the neurosciences.

Theoretical and Dynamical Neuroscience		
Introduction to Neural Networks	CAP 5615	3
Computational Neuroscience 1	ISC 6460	3
Methods in Complex Systems	ISC 6450	3
Bioinformatics	BSC 6458C	4
Bioinformatics: Engineering Perspectives	BME 6762	3

Cognitive Neuroscience		
Cognitive Neuroscience	ISC 5465	3
Cognition and Complex Systems	ISC 6452	3
Seminar in Cognition	EXP 6609	3
Seminar in Attention	ISC 6932	3

Biological Vision	PSB 5117	3
Seminar in Human Perception	EXP 6208	3
Seminar in Biopsychology of Language	PSB 6809	3

Molecular and Cellular Neuroscience		
Advanced Cell Physiology	PCB 6207	3
Developmental Neurobiology	PSB 6515	3
Brain Diseases: Mechanisms and Therapy	BMS 6736	3
Special Topics	BSC 6936	3
Special Topics	PCB 6933	3

Behavioral Neuroscience		
Seminar in Behavioral Neuroscience	PSB 6058	3
Developmental Neuropsychology	PSB 6516	3
Seminar in Sensory Processes	PSB 6609	3
Special Topics in Behavioral Neuroscience	PSB 6930	3

Neuroscience Colloquium		
Special Topics (Students must enroll in two semesters of the 1-credit Neuroscience Colloquium.)	ISC 6930	1

The Neuroscience Colloquium is a public seminar series with distinguished speakers from outside and inside of FAU. Students also present their own research in the form of a seminar to the other students in the program and faculty. Students in the certificate program are required to present at least one seminar during the two semesters that they are enrolled. Attendance is mandatory for all students.