Fau	NEW/CHANGE PROGRAM REQUEST	UGPC Approval
	Graduate Programs	UFS Approval
	Graduate Frograms	Banner
FLORIDA	Department Center for Complex Systems and Brain Sciences	Catalog
ATLANTIC UNIVERSITY		
	College Schmidt College of Science.	
Program Name Certificate in Neuroeconomics.		Effective Date (TERM & YEAR)
Certificate in Net	Change Program*	Fall, 2023
Please explain	the requested change(s) and offer rationale below or on an	attachment.

either ISC6460 (Computational Neuroscience) OR ECO6930 (Introduction to Decision Theory), either ISC6908 (Biological Signal Processing) OR EXP6930 (Neuroimaging in Cognitive Neuroscience), and one new course, the Neuroscience of Decision Making. By completing these courses, students pursuing the certificate will learn about current theories of brain function in cognition, applying mathematical and computational approaches to describing and interpreting brain function, modern approaches to designing experiments, collecting, and analyzing neural data, and how our knowledge of the neural mechanisms underlying decisions can improve our understanding of behavior.

The courses included in this certificate are designed to be introductory in nature, specifically focusing on students who, on one hand, have some knowledge of statistics and programming, but do not necessarily use this knowledge on a day-to-day basis. On the other hand, for students with more advanced quantitative skills, the certificate serves as an introduction to how those skills can be applied to neuroscience research. We anticipate that the certificate program will attract considerable interest from current graduate students in Psychology and Neuroscience. In many cases, students already enroll in two or more of these courses during their graduate studies, making it relatively easy to complete the requirements for the certificate. The certificate is also expected to generate interest from outside these core programs.

*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.

Faculty Contact/Email/Phone William Alexander walexander@fau.edu	Consult and list departments that may be affected by the change(s) and attach documentation Psychology, Business, Economics, Physics.
Approved by Gary W Perry	Date
Donartment Chair // /	February 27, 2023
College Curriculum Chair Louis Merlin	03/15/2023
College Dean Att and a Cardon de La Laca	03/15/2023
MINACIA CAYOLI UGPC Chair Mihaela Cardei (Mar 29, 2023 17:02 EDT)	Mar 29, 2023
UGC Chair	Mar 29, 2023
Graduate College Dean William David Kal	Mar 29, 2023
UFS President	
Provost	

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

1. NEW PROGRAM REQUEST

Center for Complex Systems and Brain Sciences:

New Certificate Program - Neuroeconomics Certificate.

Rationale:

Neuroeconomics is the The Certificate in Neuroeconomics requires completing a total four courses: ISC5456 (Cognitive Neuroscience), either ISC6460 (Computational Neuroscience) OR ECO6930 (Introduction to Decision Theory), either ISC6908 (Biological Signal Processing) OR EXP6930 (Neuroimaging in Cognitive Neuroscience), and one new course, the Neuroscience of Decision Making. By completing these courses, students pursuing the certificate will learn about current theories of brain function in cognition, applying

mathematical and computational approaches to describing and interpreting brain function, modern approaches to designing experiments, collecting, and analyzing neural data, and how our knowledge of the neural mechanisms underlying decisions can improve our understanding of behavior.

The courses included in this certificate are designed to be introductory in nature, specifically focusing on students who, on one hand, have some knowledge of statistics and programming, but do not necessarily use this knowledge on a day-to-day basis. On the other hand, for students with more advanced quantitative skills, the certificate serves as an introduction to how those skills can be applied to neuroscience research. We anticipate that the certificate program will attract considerable interest from current graduate students in Psychology and Neuroscience. In many cases, students already enroll in two or more of these courses during their graduate studies, making it relatively easy to complete the requirements for the certificate. The certificate is also expected to generate interest from outside these core programs.

Departments that may be affected by the change(s) and attach documentation

Psychology, Business, Economics

Neuroeconomics Certificate:

Neuroeconomics is a field of study investigating the processes underlying choice behavior by applying formal mathematical and computational models of decision making to the analysis and interpretation of neuroimaging data. The Neuroeconomics certificate program is suitable either 1) for students who have some knowledge of statistics and programming but who do not necessarily use this knowledge on a day to day basis or 2) for students with advanced quantitative skills who aim to learn how those skills can be applied to neuroscience research. Available to master's and doctoral students, the program is administered through the College of Science's Dean's Office.

Admissions Requirements

- 1. Students must satisfy the prerequisites for enrolling in courses in the certificate program.
- 2. Approval of the certificate program coordinator prior to taking courses to fulfill the 12-credit certificate requirement.

Degree Requirements

The Neuroeconomics certificate consists of 12 credits. All four courses must be successfully completed (a minimum of B+ average). Students must satisfy the prerequisites for each course in the program.

Required Courses (12 credits)				
Both of the following:				
Cognitive Neuroscience	ISC5456	3		
Neuroscience of Decision Making	ISC6930	3		
One of the following:				
Computational Neuroscience	ISC6460	3		
Introduction to Decision Making	ECO6930	3		
One of the following:				
Biological Signal Processing	ISC6908	3		
Neuroimaging in Cognitive Neuroscience	EXP6930	3		

FLORIDA ATLANTIC UNIVERSITY

College of Business Department of Economics OD 93, 201

> 777 Glades Road Boca Raton, FL 33431 Telephone: 561.297.3220

Monica Escaleras

Chair & Professor Department of Economics Office Depot - Room 201E 777 Glades Road, Boca Raton, FL 33431

Phone: 561-297-1312

February 2, 2022

Dear Graduate Committee:

The Department of Economics has reviewed the proposal for the Certificate of Neuroeconomics and we endorse the Certificate. Furthermore, we are pleased that our course **ECO 6930: Introduction to Decision Theory** is included in the Certificate. This course will introduce rational decision-making models under environments with complete certainty and uncertainty. Alternative theories will also be introduced in view of experimental evidence.

If I can be of any further assistance in your evaluation of the Certificate, please feel free to contact me.

Sincerely,

Monica Escaleras

Monica Escaleras



FLORIDA ATLANTIC UNIVERSITY

February 27, 2023

To whom it may concern:

The physics faculty have reviewed the proposed Certificate in Neuroeconomics. The department approves of this proposal and wholeheartedly supports it.

Should you have any further questions, please do not hesitate to contact me.

Sincerely yours,

Luc T. Wille, Ph.D. Professor and Chair Department of Physics Florida Atlantic University



Department of Psychology
Charles E. Schmidt College of Science
Robin Vallacher, Ph.D.
Interim Chair and Professor
BS 12, Room 101
777 Glades Road
Roca Raton, FL 33431-0991

Robin R. Vallacher Interim Chair and Professor Department of Psychology Florida Atlantic University 777 Glades Road Boca Raton, FL 33431

Dear Graduate Program Committee:

The Department of Psychology has reviewed the Certificate of Neuroeconomics proposed by the Center for Complex Systems & Brain Sciences. We endorse the proposal and recommend it be adopted.

Feel free to contact me if you wish further assistance in your evaluation of the proposed Certificate.

Cordially,

Robin R. Vallacher

Interim Chair and Professor

Goli G. Valle