Description of the Bachelor's degree in Biopsychology

The Biopsychology program exposes the student to concepts of biology and psychology, emphasizing the understanding of neural and pharmacological mechanisms. In addition, it provides a foundation of development and neuroscience. This program would allow the student to prepare for graduate studies in Biology, and Neuropsychology. If the student wishes to pursue studies in psychology, he/she must take other requirements of individual programs as part of the prescribed distributives.

The program allows the student to develop skills that can be useful to work as a research assistant in laboratories in areas of neurology, pharmacology and / or biology.

Mission

The Bachelor of Science in Biopsychology is designed to develop the basic competencies related to the study of the biological foundations of human behavior. In addition, it will help graduates to work or continue graduate studies in fields related to Biopsychology.

Alumni Competencies Profile

The Bachelor of Science in Biopsychology program is designed to develop the professional competencies that allow the student to acquire the following:

Knowledge

- 1. demonstrate basic knowledge of the concepts, principles and theories related to Biology and Psychology.
- 2. demonstrate knowledge to integrate information from multiple sources in Biology and Psychology relevant to the study of human behavior problems.

Skills

- Apply scientific models or processes in the solution of problems related to the study of Biopsychology.
- 2. Properly use the equipment and materials relevant to the study of Biopsychology.
- 3. Apply the appropriate methodology in the solution of problems related to Biopsychology.

Abilities

- 1. Identify ethical situations and their possible informed and responsible explanations.
- 2. Demonstrate a critical attitude towards the decisions that are made from the information generated by Biopsychological research.

Admission's Requirements

Every student to be admitted must present a valid document proving their identity, for purposes of compliance with the law and applicable regulations.

1. Option A:

- 1. Deliver an official document issued in any tangible medium that serves to certify that the student has completed the graduation requirements of an accredited high school, with an academic index of 2.00 or its equivalent.
- 2. Submit the results obtained in the University Admission Test (PAA), the Scholastic Aptitude Test or any other equivalent.
- 3. Obtain an index of 785 or its equivalent, according to the procedure carried out by the Admissions Office.

2. Option B:

- 1. Deliver an official document issued in any tangible medium that serves to certify that the student has completed the graduation requirements.
 - a. This admission option does not require the presentation of the result of the PAA test, the Scholastic Aptitude Test or any other equivalent.

Transfer Requirements

- 1. Comply with the admission requirements for transfer students established in the General Catalog.
- 2. Have completed university studies at another Institution and have passed with a grade of C or more; a minimum of 12 credits.

Academic Progress Requirement

- 1. Comply with all the Satisfactory Progress Standards established in the General Catalog.
- 2. Students in this Program must pass all concentration courses with a minimum grade of C.

General Education Requirements

General Education Requirements – 42 credits

Course	Title	Credits	NOTES
GEIC 1010	Information Technology and	3	
	Computing		
GEEN (1101 ó	English I	3	
1201 ó 2311)			
GEEN (1102 ó	English II	3	Pre-requisite GEEN (1101 ó 1201 ó
1202 ó 2312)			2311)
GEEN (1103,	English III	3	Pre-requisite GEEN (1102 ó 1202 ó
1203 ó 2313)			2312)
GESP 1101	Literature and Communication:	3	
	Narrative and Poetry		

GESP 1102	Literature and Communication: Essay and Theatre	3	
GESP 2203	Literature and Worldview	3	
GESP 2203 GEMA 1200		3	
	Fundamentals of Algebra	3	
GECF 1010	Introduction to the Christian Faith	-	
GEHS 2010	Historical Process of	3	
05110.0000	Contemporary Puerto Rico	•	01 (11
GEHS 3020	Global Society	3	Choose one of the courses.
GEHS 3050	Human Formation, Society and Culture		
GEHS 4020			
	Western, Ancient and		
	Medieval Civilization		
GEHS 4030	Modern and Contemporary Western Civilization		
GEPE 3010	Art Appreciation	3	Choose one of the courses.
GEPE 3020	Music Appreciation		
GEPE 3030	Appreciation of the Theatre		
GEPE 4040	Ethics and Social	3	
	Responsibility		
GEEC 2000	Entrepreneurial Culture	3	

Concentration and Core Requirements: 68 credits

Course	Title	Credits	NOTES
BIOL 1101	General Biology I	3	
BIOL 1103	Biology Skills Laboratory I	1	Concurrent with BIOL 1101
BIOL 1102	General Biology II	3	Pre-requisite BIOL 1101 BIOL 1103
BIOL 1104	Biology Skills Laboratory II	1	Concurrent with BIOL 1102
BIOL 2100	Introduction to Neurobiology	3	Pre-requisite BIPS 1200
BIPS 1200	Biopsicología General	3	Pre-requisite BIOL 1102 and PSYC
			1051
CHEM 1111	General Chemistry I	4	Pre-requisite GEMA1200
			Contains Laboratory
CHEM 2212	General Chemistry II	4	Pre-requisite MATH 1500 ó MATH
			1511 and CHEM 1111
			Contains Laboratory
CHEM 2221	Organic Chemistry I	4	Pre-requisite CHEM 2212
			Contains Laboratory

CHEM 2222	Organic Chemistry II	4	Pre-requisite CHEM 2221
			Contains Laboratory
MATH 1511	Precalculus I	3	Pre-requisite GEMA 1200
MATH 1512	Precalculus II	3	Pre-requisite MTH 1511
PSYC 1051	General Psychology I	3	
PHYS 3001	General Physics I	4	Pre-requisite MATH 1500
			Contains Laboratory
PHYS 3002	General Physics II	4	Pre-requisite PHYS 3001
			Contains Laboratory
BIOL 3010	Genetics	3	Pre-requisite BIOL 1102 and GEMA1200
BIOL 3106	Human Anatomy and Physiology	4	
BIPS 3900	Neuroscience of Human Behavior	3	
BIPS 4900	Integrative Seminar in Biopsychology	3	Pre-requisite: Have passed 30 credits in courses of the concentration in Biopsychology.
MATH 2100	Introduction to Probability and Statistics	3	
PSYC 3200	Comparative Psychology	3	
PSYC 4234	Personality Psychology	3	Pre-requisite PSYC 2010

Prescribed Distribution Requirements: 12 credits

The student will select (6) credits from among the following:

BIOL 4200 Neuroscience (3 credits)

BIOL 4604 Cellular and Molecular Biology (3 credits)

BIOL 4494 Pharmacology (3 credits)

BIOL 4960 Bioethics (3 credits)

MATH 2251 Calculus (5 credits)

Select six (6) credits from the following courses:

PSYC 3100 Learning (3 credits)

PSYC 2010 Developmental Psychology (3 credits)

PSYC 3144 Motivation and Emotion (3 credits)

PSYC 3300 Social psychology (3 credits)

PSYC 397_ Special Theme (3 credits)

PSYC 4213 Psychopathology (3 credits)

List of Core Concentration Courses

BIPS 1200 General Biopsychology.

Study of the relationship between the nervous system and behavior, learning, memory, cognition and perception. Study of the fundamental notions of the biological bases related to sensations, motivation, emotion, among others. BIOL 1102 and PSYC 1051 requirements. (3 credits)

BIPS 3900 Neuroscience of Human Behavior

Discussion of the biological basis underlying human behavior with emphasis on neuroanatomy and neurochemistry. Analysis of neurophysiological processes related to vision, the auditory system, sleep, language production. Emphasis on the influence of different brain structures on emotional states, learning, memory and mental disorders. Requirement: BIOL 2100, BIOL 3106 and PSYC 1051. (3 credits)

BIPS 4900 Integrative Seminar in Biopsychology

Integration of the knowledge and skills acquired in the courses of the program. Analysis of cases and research of topics of interest in biopsychology. It requires the presentation of written and oral works. Requirement: Have passed 30 credits in courses of the concentration in Biopsychology. (3 credits)

Requirements for Minor Concentration in Biopsychology

The minor concentration in Biopsychology is aimed at students who intend to continue studies in Neurosciences, Medicine, Dentistry and graduate programs in sciences related to human behavior. It develops the basic competences related to the integration of general concepts of biology and psychology.

The student can select the following courses:

Option A

Course	Title	Credits	NOTES
BIOL 1101	General Biology I	3	
BIOL 1103	Biology Skills Laboratory I	1	Concurrent with BIOL 1101
BIOL 1102	General Biology II	3	Pre-requisite BIOL 1101 BIOL 1103
BIOL 1104	Biology Skills Laboratory II	1	Concurrent with BIOL 1102
BIOL 2100	Introduction to Neurobiology	3	Pre-requisite BIPS 1200
BIOL 3106	Human Anatomy and	4	Pre-requisite BIOL 1102, BIOL 1104
	Physiology		
			Contains Laboratory

Option B:

Course	Title	Credits	NOTES
BMSC 3011	General Biology I	3	
BIPS 1200	General Biopsychology	3	BIOL 1102 and PSYC 1051 are
			requirements.
BIPS 3900	Neuroscience of Human	3	BIOL 2100, BIOL 3106 and PSYC
	Behavior		1051 are requirements.
PSYC 1051	General Psychology I	3	

The student will select additionally (3) credits among the following:

BIOL 4200 Neuroscience (3 credits)

PSYC 3200 Comparative Psychology (3 credits)

PSYC 3144 Motivation and Emotion (3 credits)

PSYC 3300 Social psychology (3 credits)