**Biological Bases of Behavior 1 (3 credit hours)**

**PSB 3002 section # 12078**

**Fall 2016: Tuesday 2:00 – 4:50: P.M.**

**Jupiter Campus Room: EC102**

## Dr. Katherine Hughes

Office: WB 216

Office Hours: Thursday. 9:00 AM– 11:00AM; 12:30PM-1:00PM or by appointment. Email is the best way to reach me.

\*\***The hour immediately before class is not available for office hours!\*\***

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TA: Nicholas Hoppock E-Mail: nhoppock2016@fau.edu

**Prerequisite**s: PSY 1012 General Psychology.

**Pre- or Co-requisite**: PSY 3234 Experimental Design and Statistical Inference.

Students are encouraged to have taken general biology or anatomy and physiology prior to enrolling in this course. Students who have not taken either of these courses may have difficulty with the material presented in this course.

**Required Text**: Physiology of Behavior, (twelfth edition) by Neil Carlson, Pearson, 2016. ISBN: 9780134080918

**Course Description**: This course is intended to present the fundamental biological principles of psychobiology to psychology undergraduate students. It is required of psychology and psychobiology majors. This course will cover the concepts of cellular anatomy and physiology, neuroanatomy of the central and peripheral nervous systems, the neurotransmitter systems, and the functional anatomy of the sensory and motor systems.

**Course Objectives:** Knowledge of neural histology and ultrastructure, neural

physiology, neuroanatomy of the central and peripheral nervous system, and basic

chemical neuroanatomy (neurotransmitter systems), and "systems integration", which

includes an analysis of sensory and motor systems should be attained. Students that complete this course should be prepared for other psychobiology courses at FAU, as well as the psychology/physiological psychology specialization of the GRE exam (for students intending to enter psychology graduate school).

**Canvas**

Copies of the lecture notes will be posted in PowerPoint format in Canvas usually the night before class. Announcements for the class will also be posted in Canvas. Go to http://Canvas.fau.edu to access the Canvas login page.

**FAU E-Mail Policy:** When contacting students via e-mail, the University will use only the student's FAU e-mail address. This will ensure that e-mail messages from FAU administration and faculty can be sent to all students via a valid address. E-mail accounts are provided automatically for all students from the point of application to the University.

**Grading**: Three multiple choice exams will be given. The scores of these three exams will be averaged to compute your final grade. A zero will be assigned for missed exams. Make-up exams will be given only for justifiable reasons (e.g. illness, death, jury duty, etc.) with the appropriate documentation. Make-up exam format will be at the discretion of the professor.

An additional 2 points to be added onto your semester average may be earned by doing a classroom demonstration of one of the concepts listed on the syllabus during the relevant course lecture. I must be notified in advance of your planned demonstration and you must give it on date you indicated on the sign up sheet. You may work with one other individual currently enrolled in this course.

**Grading Scale:** 90-100% A 70-76% C

89% A- 69% C-

87-88% B+ 67-68% D+

80-86% B 60-66% D

79% B- 59% D-

77-78% C+ 58-0% F

### Schedule of Class Meetings

August 23 Introduction Chapter 1

Aug. 30 Structure & Function of Nervous System Cells Chapter 2

Sept. 6 Neurons/ Neuronal communication Chapter 2

Sept. 13 Basic Features of the Nervous System Chapter 3

Central and Peripheral nervous system

## Sept. 20 **EXAM 1**

Sept. 27 Psychopharmacology/ Sites of drug action Chapter 4

## Oct. 4 Neurotransmitters Chapter 4

## October 11 **Fall Break/ NO CLASS**

## October 18 Vision Anatomy Chapter 6

## October 25 Coding of Visual Information Chapter 6

Nov. 1 **EXAM 2**

Nov. 8 Audition Chapter 7

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Nov. 15 Gustation and Olfaction Chapter 7

Nov. 22 Muscles and Reflexes Chapter 8

Nov 29 Apraxia/ Basal Ganglia/ Disorders Chapter 8

Dec. 6 Review

Dec. 13 **EXAM 3 1:15PM-3:45**

**Credit Hour Definition**

This course involves 50 minutes of in class instruction for each credit hour per week, and a minimum of two hours of out of class assignments each week for 15 weeks.To master the material covered in this course it is expected that the student will spend a minimum of two hours per week per credit hour on the out of classroom assignments.

**Code of Academic Integrity Policy Statement**

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University regulation 4.001 at

[*http://www.fau.edu/regulations/chapter 4/4.000\_Honor\_Code.pdf*](http://www.fau.edu/regulations/chapter%204/4.000_Honor_Code.pdf)

**Disability policy statement**

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU’s campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at [www.fau.edu/sas/](http://www.fau.edu/sas/)

**Counseling and Psychological Services (CAPS) Center**

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU’s Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

**Attendance Policy:** Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student’s responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student’s final course grade as a direct result of such absence.

**Reasonable Accommodation Statement for Makeups**

Reasonable accommodation will be made for students participating in a religious observance or in University-approved activities, including athletic or scholastics teams, musical and theatrical performances and debate activities.