Principles of Human Neuroanatomy (BSC 4082)
3 credit hours
Department of Biological Sciences, Florida Atlantic University

Spring Term 2017

Syllabus – 4 pages

Class meetings:	Tuesdays and Thursdays, 2:00 to 3:20 pm
Location:	Admin Classroom 102, Jupiter Campus
Instructor:	Brenda J. Claiborne, Ph.D.
	Professor
	Office (for office hours): Building RF 102, Room 209
	Email: brenda.claiborne@fau.edu
Office Hours:	Wednesdays, 1:30 – 4:30, and by appointment

Course Description: Course focuses on the basic structural components and interconnections of the human brain, spinal cord and peripheral nervous system at the level of functional circuits. A discussion of diseases and injuries that disrupt the morphological integrity of the human nervous system will be included.

Prerequisite: BSC 1010, BSC 1010L, BSC 1011 and BSC 1011L with a minimum grade of C- or better

Required Text: *Neuroanatomy Text and Atlas*; John H. Martin; FOURTH EDITION, 2012; McGraw-Hill; ISBN: 0-07-1603964; ISBN-13: 978-0-07-1603966.

Course Objectives: The overall objectives of this course are for students to understand the basic structural components of the human nervous system at the level of functional circuits. Students will be expected to learn the anatomy of the human brain, spinal cord and peripheral nervous system; to understand the functions of the various regions and their interconnections; and to comprehend how morphological injuries and diseases disrupt these functions.

Lecture Outlines, Assigned Reading and Lecture Presentations: Lecture outlines will be posted on Blackboard at least one week before each class. Students should complete the assigned reading and fill in the outlines BEFORE each class. Students are expected to bring a copy of the outline to class to aid them in completing in-class assignments and so they can add additional notes on the topic that the instructor may present in class. Lecture presentations (Power Points) and any class handouts will be posted to Blackboard after the lecture. Questions on quizzes and exams will be taken from the outlines, handouts and lecture presentations.

Attendance: Students are expected to attend all classes and participate in activities and discussions. Although attendance is not formally required, students should note that there will be in-class activities in a number of classes and that a portion of a student's grade will be based on class participation (see Grading Policies below). If a student misses a class, he/she is responsible for all material covered during that class, including lecture and discussion material and any changes to the course schedule. If a student must miss a class, it is suggested that the student arrange to obtain class notes and announcements from another student. As per FAU policy, students will not be penalized for absences due to participation in University-approved activities, including athletic or scholastics teams, musical and theatrical performances, and debate activities. Reasonable accommodation will also be made for students participating in a religious observance. Students must meet with the instructor and give documentation in advance to be absent for these activities.

Class Schedule: Spring 2017			
Date	**Quiz or Exam***	**Topic for Lecture and Discussion**	**Textbook****
Jan 10		Organization of the central nervous system	Chapter 1
Jan 12		"	"
Jan 17	Quiz 1	Overview of structure and function of CNS	Chapter 2
Jan 19		"	"
Jan 24	Quiz 2	Somatic sensation: spinal mechanosensory systems	Chapter 4
Jan 26		"	"
Jan 31	Quiz 3	Somatic sensation: pain, temperature and itch	Chapter 5
Feb 2		"	"
Feb 7	**Exam 1**	**Exam 1 covers Chapters 1, 2, 4 and 5**	-
Feb 9		Somatic sensation and cranial nerves	Chapter 6
Feb 14		"	"
Feb 16	Quiz 3	Visual system	Chapter 7
Feb 21		"	"
Feb 23	Quiz 4	Auditory system	Chapter 8
Feb 29		"	"
Mar 2	**Exam 2**	**Exam 2 covers Chapters 6, 7 and 8**	-
Mar 7		Spring Break	-
Mar 9		Spring Break	-
Mar 14		Chemical senses: taste and smell	Chapter 9
Mar 16		Descending motor pathways	Chapter 10
Mar 21		"	"
Mar 23	Quiz 5	Cranial nerve motor nuclei and brain stem motor functions	Chapter 11
Mar 28		"	"
Mar 30		Vestibular system	Chapter 12
Apr 4	**Exam 3**	**Exam 3 covers Chapters 9, 10, 11 and 12**	-
Apr 6		Cerebellum	Chapter 13
Apr 11		Basal Ganglia	Chapter 14
Apr 13		Hypothalamus	Chapter 15
Apr 18		"	"
Apr 20	Quiz 6	Limbic System	Chapter 16
Apr 25		Reading Day – no class	-
Apr 27		No class (final exam period)	
Apr ? 1:15 to 3:45 pm	**Final Exam**	**Comprehensive Final Exam covers all Chapters and material presented during the semester with an emphasis (30%) on Chaps 13, 14, 15 and 16. Note that the Final exam begins at 1:15 pm.**	

* Please note that all quizzes and exams will be given at the beginning of the class period, starting promptly at 2 pm. Quizzes will cover the material on the outline, any handouts and the lecture presentation from the preceding two classes. (For example, Quiz 1 will cover the material from January 10 and 12.) Any student who arrives late for a quiz or an exam will not be allowed to take the quiz or exam if any other students have already seen the quiz or exam and have left the classroom.

** Readings are to be completed before the class period.

Grading Policies: A student's course grade will be based on quizzes, class participation, three exams and a final comprehensive exam. Quizzes and exams will consist of short answer questions. All students will be expected to use proper grammar, to write legibly and to spell words and terms correctly.

Make-ups: Make-up quizzes and exams will be given only as allowed by University policy or in extreme circumstances. Extreme circumstances are limited to serious illnesses, hospitalizations, military service, or death of a family member; any such instance will require documentation.

Extra Credit: "Extra credit" assignments will not be given in this class as the objective of the course is to understand the material covered in the readings, discussions and lectures.

Incompletes: As per University policy, grades of Incomplete ("I") are reserved for students who are passing a course but have not completed all the required work because of exceptional circumstances. For this class, if a student is unable to complete the required coursework because of a serious illnesses, hospitalization, military service, or death of a family member, the student can request a grade of Incomplete. The awarding of an "I" (Incomplete) will be granted only in exceptional cases; the decision will be made either solely by the instructor or in consultation with the Associate Dean.

Withdrawal from Class: It is the responsibility of the student to withdraw from this class, should that status be desired. The instructor will not give the grade of "I" in lieu of a grade of "D" or "F".

Course Grade: Points

6 quizzes at 10 points each	60 points
Class participation	40 points
Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Cumulative Final Exam	100 points
Total	500 points

Course Grade: Letter Grades

A	90 - 100%
B+	87 - 89%
B	80 - 86%
C+	77 - 79 %
C	70 - 76%
D+	67 - 69%
D	60 - 66%
F	<60%

Electronic Devices: University policy states that "In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions." In this class, any use of cell phones or other communication devices is not allowed during active class times. (A ringing or vibrating device is included in the definition of "use of an electronic device," as is checking email or accessing the web.) If a student uses a communication device during active class time, the student will be required to leave the class for the remainder of that class period and will receive a zero for any in-class activities/quizzes/exams that he/she may miss.

Ethical Standards: 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: http://www.fau.edu/ctl/4.001_Code_of_Academic_Integrity.pdf.

Accommodations for Disabilities: In compliance with the Americans with Disabilities Act (ADA), students who require reasonable accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) – in Jupiter, SR 139 (561-799-8698) – and follow all OSD procedures.