Principles of Human Neuroanatomy (BSC 4082)

3 credit hours

Department of Biological Sciences, Florida Atlantic University

Spring Term 2017

Syllabus- 4 pages

Class meetings: Location: Instructor:

Office Hours:

Tuesdays and Thursdays, 2:00 to 3:20pm Admin Classroom 102, Jupiter Campus Brenda J. Claiborne, Ph.D.

Professor

Office (for office hours): Building RF I 02, Room 209

Email: [brenda.cl](mailto:brenda.claiborne@fau.edu)[aiborne@fau.edu](mailto:aiborne@fau.edu)

Wednesdays, I :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 I OIOL, BSC lOll and BSC 10lL with a minimum grade of C- or better

Required Text: *Neuroanatomy Text and Atlas;* John H. Mattin; 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

st ructural components of the human nervous system at the level offunctional 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 a nd 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 wi ll 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 a nd 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 schol astics teams, musical and theatrical performances, and debate activities. Reasonable accommodation will also be made for students patticipating in a religious observance. Students must meet with the instructor and give documentation in advance to be absent for these activities.

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| Class Schedule:Spring 2017 | | | |
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| 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 I | Overview of structure a nd function ofCNS | Chapter 2 |
| Jan 19 |  | " | II |
| Jan 24 | Quiz2 | Somatic sensation: spinal mechanosensory systems | Chapter 4 |
| Jan 26 |  | " | " |
| Jan 31 | Quiz3 | Somatic sensation: pain, temperature and itch | Chapter 5 |
| Feb 2 |  | " | II |
| Feb7 | Exam 1 | Exam 1covers Chapters 1, 2, 4 and 5 | - |
| Feb 9 |  | Somatic sensation and cranial nerves | Chapter 6 |
| Feb 14 |  | " | " |
| Feb 16 | Quiz3 | Visual system | Chapter 7 |
| Feb 21 |  | " | II |
| Feb 23 | Quiz4 | Auditory system | Chapter 8 |
| Feb 29 |  | " | " |
| Mar2 | Exam 2 | Exam 2 covers Chapters 6, 7 and 8 | - |
| Mar7 |  | Spring Break | - |
| Mar9 |  | Spring Break | - |
| Mar 14 |  | Chemical senses: taste and smell | Chapter 9 |
| Mar 16 |  | Descending motor pathways | Chapter 10 |
| Mar21 |  | " | " |
| Mar23 | Quiz5 | Cranial nerve motor nuclei and brain stem motor functions | Chapter 11 |
| Mar28 |  | " | " |
| Mar30 |  | Vestibular system | Chapter 12 |
| Apr4 | Exam 3 | Exam 3 covers Cha >\_ters 9, 10, 11 and 12 | - |
| Apr6 |  | Cerebellum | Chapter 13 |
| Apr 11 |  | Basal Ganglia | Chapter 14 |
| Aor 13 |  | Hypothal am us | Chapter 15 |
| Apr 18 |  | " | " |
| Apr20 | Quiz 6 | Limbic System | Chapter 16 |
| Apr25 |  | Reading Day - no class | - |
| Apr27 |  | No class (final exam period) |  |
| Apr?  1:15 to  3:45pm | 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  1:15pm. |  |
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| \* 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, anhandouts 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 a re to be completed before the class oeriod. | | | |

Grading Policies: A student's course grade will be based on qui zzes, class patticipation, three exams and a final comprehensive exam. Quizzes and exams will consist of short a nswer 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 ser vice, 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 deat h of a family member, the student ca n request a grade oflncomplete. 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 I 0 points each

Cl ass participation

Exam 1

Exam 2

Exam 3

Cumulative Final Exam

Total

60 points

40 points

100 points

100 points

100 points

100 poi nts

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, a re to be disabled in class sessions." In this class, any use of cell phones or other comm unication devices is not allowed during active class times. (A ringing or vibrating dev ice is incl uded 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/q uizzes/exams that he/she may miss.

Ethical Standards: Students at Florida Atlantic University are expected to maintain the hi ghest 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: htt p://www.fa u.ed u/ctl /4.00 I Code of Academ ic l n tegri ty.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 of 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.*