

## **NROD65H3 Pathologies of the Nervous System (Spring 2005)**

### **Instructor: Professor Joanne Nash**

Room S-540C

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### Lectures:

Thursdays: 4-6pm AA209

### Textbook:

There is no text book for this course. Course readings will be assigned throughout the course and uploaded as PDF files onto the intranet. Students are expected to download and read before class.

### Questions and Office Hours

Office hours: Monday: 2-4pm or by appointment (arranged by e-mail)

Short answer questions will be answered by e-mail, questions involving detailed answers will be addressed in office hours. On weekdays will respond within 48 hours.

**\*\*\*\*\*Prerequisites: NROB60H & PSYB65H\*\*\*\*\***

**\*\*\*\*\*Corequisite: NROC61H\*\*\*\*\***

**\*\*\*\*\* please check that you have the these, as it will be checked \*\*\*\*\***

### Intranet Resources

- Handouts for lectures will be uploaded onto the intranet as power point presentations no later than 24hours prior to lecture
- Course readings will be uploaded onto the intranet at least one week prior to class
- Please bring course readings and lecture handouts to the class
- Necessary resources related to assignments will be uploaded on the intranet as required

### Exam

- Final exam only (2 hours)

### Course work

- see over

### Grading scheme

- Make a Brain (5%)
- Seminar (15%)
- Debate + summary (20%)
- Essay paper (20%)
- Class participation (10%)
- Final exam (30%)

#### Make a Brain (5%)

At the end of the first class you will be given some modelling clay and a map of one hemisphere of the human brain. You are expected to have made of a model of the hemisphere, know the names of all the brain regions, their main functions, neurotransmitters and connections with other brain regions by week 3 (26<sup>th</sup> Jan)

#### Seminar (15%)

Students will choose from a list of original research articles uploaded onto the intranet after the first lecture on January 12<sup>th</sup> (unless decided otherwise during first lecture). In the first week each student will choose one paper from this list and present a 30 minute seminar. Ten minutes will be given for question time. When presenting, students are expected to provide handouts, which will be uploaded onto the intranet 24hours prior to the seminar. Information in seminars presented by students will contribute to the final exam.

#### Debate (15%) + summary (5%)

On week 6 (16<sup>th</sup> Feb) there will be a class debate. The topic to be discussed:

‘Should Street Drugs be Used as Therapies to Treat Neurological Disorders?’

During the first class (12<sup>th</sup> Jan), all students will be divided into 2 groups of 11. Each team will take a different stance on the topic of debate, stance will be determined on 12<sup>th</sup> Jan. Students must to carry out their own literature searches to formulate the arguments. Guidelines for searches will be given on 12<sup>th</sup> Jan. One film documentary will be made available from 12<sup>th</sup> January until 15<sup>th</sup> Feb 5pm to help with the assignment. This should be watched in your own time. On the day of the debate Joanne will introduce the topic, then, both teams will drive the debate. Each team will form a convincing argument in support of their given topic. At the end of the debate there will be a group discussion to round up the debate. Each student must submit a summary of their given topic in 2 pages (double spaced, with refs on a separate page) AT THE BEGINNING OF CLASS. Oral contribution to the debate: 15% total marks; summary: 5% of marks respectively).

#### Essay Paper (20%)

‘Alzheimer’s disease and Parkinson’s disease are the same disease, just at opposites ends of the scale; Discuss’

At the end of the lecture on week 5 (Feb 9<sup>th</sup>), more information will be given for this assignment. The essay should be between 8-15 pages, not including references (single

sided, double spaced, size 12 font). This should be submitted by Midnight on March 23rd<sup>st</sup> 2006.

Class Participation and Attendance at Departmental Seminars (10%)

Each week a mark out of 3 will be give for participation in the class and knowledge of relevant course readings. Also during the duration of the course it is expected that all students attend departmental seminars. Attendance to these is mandatory. Each seminar will is worth two extra marks on that given week.

Final Exam (30%)

During the exam period there will be 2hour exam. There will be least 8 questions on 5 topics (a topic is defined as a lecture week). Students must answer 4 questions from the 5 topics. None of the questions answered can be from the same topic.

Tardy Assignment Submission

Unless accompanied by a medical note or something of similar standing, late submission of summaries for seminar and debate will not be accepted. For the research article, late papers will be docked 15% per day unless accompanied with a medical note.

Course Outline Summary\*

Week	Date	Topic	Seminar number		
1	12 <sup>th</sup> Jan	Course Outline and Overview of the CNS			
2	19 <sup>th</sup> Jan	Synucleopathies e.g. Parkinson's	1	2	
3	26 <sup>th</sup> Jan	Stroke	3	4	
4	2 <sup>nd</sup> Feb	Dementia e.g Alzheimer's, AIDs	5	6	
5	9 <sup>th</sup> Feb	Drug Addiction	7	8	
6	16 <sup>th</sup> Feb	Class Debate			
-----	23 <sup>rd</sup> Feb	-----	-----	-----	
7	2 <sup>nd</sup> March	Prion disease	9	10	
8	9 <sup>th</sup> March	Huntington's and Dystonia	11	12	13
9	16 <sup>th</sup> March	ALS and Multiple Sclerosis	14	15	16
10	23 <sup>rd</sup> March	Schizophrenia	17	18	
11	30 <sup>th</sup> March	Autism and Down Syndrome	19	20	
12	6 <sup>th</sup> April	Advances & challenges in treating pathologies of the nervous system	21	22	

\* Subject to change

Important Dates

26<sup>th</sup> January: make a brain deadline

16<sup>th</sup> Feb: Class Debate

Feb 20<sup>th</sup> – 24<sup>th</sup>: Reading week

12<sup>th</sup> March: Drop date. Marks for first 2 assignments (make a brain and class debate) will be returned by drop date

23<sup>rd</sup> March: Essay Paper deadline

Date of Seminar:

Date of final exam: