

132:235 NEUROBIOLOGY OF DISEASE
Fall 2011

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Class Location: Lectures: 1:00-2:30 PM Tu and Th, Neurology Conference Room, 2141-2 RCP

Description

Neurobiology of Disease will explore the basis of major diseases affecting the nervous system. Offered this year for the fifth time, this course was developed in response to a nationwide concern that graduate students in neuroscience and other disciplines do not learn enough disease-oriented biology. Experts from throughout the University will provide state of the art overviews on the clinical, neuropathological, physiological and molecular features of disease. Lecturers will also discuss key areas that hold promise for future research, including the development of rational therapies. Diseases to be discussed will include: neurodegenerative diseases, neurodevelopmental disorders, muscular dystrophies, dystonia, stroke, epilepsy, anxiety, and schizophrenia, among others.

Requirements

Two exams (midterm and final). An 8-10 page paper will be modeled on a Psychology Bulletin article. Attendance at lectures and participation in discussion will count toward your course grade.

Course website

The syllabus, readings, lecture notes, notices regarding schedule or other course changes, and other information will be posted on ICON (icon.uiowa.edu). Please refer to this site often to obtain up-to-date course information.

Required Readings

Whenever possible, required readings will be posted on the course website prior to the lecture. Please check the ICON site often as material may change.

Posting of Lectures:

Most lectures will be posted on ICON. However, these will not be posted prior to the lecture, so will not be provided as a 'hand-out' for the lecture. In addition, there is no guarantee that all lectures will be posted on ICON.

Grading

Your grade in this course will be based on a research proposal and final exam

Research Paper	40%
Class Participation	10%
Midterm Exam	25%
Final Exam	25%

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Aug	23	Introduction to Neurobiology of Disease	N. Denburg (Neurology)
	25	Parkinson disease: motor manifestations	R. Rodnitzky (Neurology)
	30	Parkinson disease: non-motor	E. Uc (Neurology)
Sept	1	Stroke: clinical	P. Davis (Neurology)
	6	Stroke: cerebral circulation	F. Faraci (Medicine)
	8	Huntington's disease: clinical	P. Nopoulos (Psychiatry)
	13	Huntington's disease: neurobiology/RNAi	P. Gonzalez-Alegre (Neurology)
	15		
	20	Neurobiology of pain	T. Brennan (Anesthesia)
	22	Schizophrenia	B.C. Ho (Psychiatry)
Oct	27	Anxiety disorders	J. Wemmie (Psychiatry)
	29	Migraine	A. Recober (Neurology)
	4	Alexander's disease	D. Bonthius and B. Karacay (Pediatrics)
	6	Multiple sclerosis	E. Shivapour (Neurology)
	11	MIDTERM	
	13	AD and related dementias: clinical	S. Schultz (Psychiatry)
	18	AD and related dementias: neurobiology	G. Lee (Medicine)
Nov	20	Professional Development	N. Denburg/ J. Kurczek (Neurology)
	25	Mood Disorder	J. Potash (Psychiatry)
	27	Lysosomal storage diseases	B. Davidson (Internal Medicine)
	1	Muscular dystrophy	K. Mathews (Pediatrics)
	3	SIDS and SUDEP	G. Richerson (Neurology)
	8	Epilepsy: clinical	M. Granner (Neurology)
	10	Epilepsy: neurobiology	A. Bassuk (Pediatrics)
Dec	15	SfN Conference	--
	17	SfN Conference	--
	22	THANKSGIVING BREAK	--
	24	THANKSGIVING BREAK	--
	29	Deafness	C. Campbell (Otolaryngology)
	1	Viral infections during neural development	D. Bonthius (Pediatrics)
	6	Inflammation-mediated neurodegenerative diseases	A. Zaheer (Neurology)
8	Glaucoma	M. Anderson (Physiology)	
TBA	FINAL EXAM		

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Student's Rights and Responsibilities

Students in the Graduate College are expected to follow the University's Code of Student Life, and any academic misconduct is taken seriously. Your responsibilities to this class - and to your education as a whole - include attendance and participation. This syllabus details specific expectations the instructor may have about attendance and participation. You have a responsibility to help create a classroom environment where all may learn. At the most basic level, this means you will respect the other members of the class and the instructor and treat them with the courtesy you hope to receive in return.

Academic Misconduct

You are expected to be honest and honorable in your fulfillment of assignments and in test-taking situations. Plagiarism and cheating are serious forms of academic misconduct. Instructors who detect plagiarism or cheating may decide, in consultation with the DEO, to reduce the student's grade on the assignment or in the course, even to assign an F. The full policy on academic misconduct is on-line in the College's Student Academic handbook. See website for plagiarism definition and guidelines.

Availability of Modifications

The instructor of this class will make reasonable accommodations for students with physical, mental, or learning disabilities. Students with disabilities which may require some modification of seating, testing, or other class requirements should contact the instructor during his/her office hours so appropriate arrangements may be made. It is also the student's responsibility to contact the Office of Student Disabilities Services, 3100 Burge Hall (335-1462) and obtain a Student Academic Accommodation Request form (SAAR). An instructor who cannot provide the accommodations specified, or has concerns about the accommodations, must contact the Student Disability Services counselor who signed the request form within 48 hours of receiving the form from the student.

Complaint Procedures

A student who has a complaint against any member of the college's teaching staff is responsible for following the procedure described in the Student Academic Handbook. The student should attempt to resolve the issue with the instructor involved. If the complaint is not resolved to the student's satisfaction, the student should go to the course supervisor (if the instruction is a Teaching Assistant) or to the departmental executive officer. If the issue remains unresolved, the student may submit a written complaint to the Associate Dean for Academic Programs, 120 Schaeffer Hall (335-2633). Complaints may concern inappropriate faculty conduct, incompetence in oral communication, inequities in assignments, scheduling of examinations at other than authorized and published times, failure to provide disability accommodations, or grading grievances. In complaints involving the assignment of grades, it is college policy that grades cannot be changed without the permission of the department concerned.