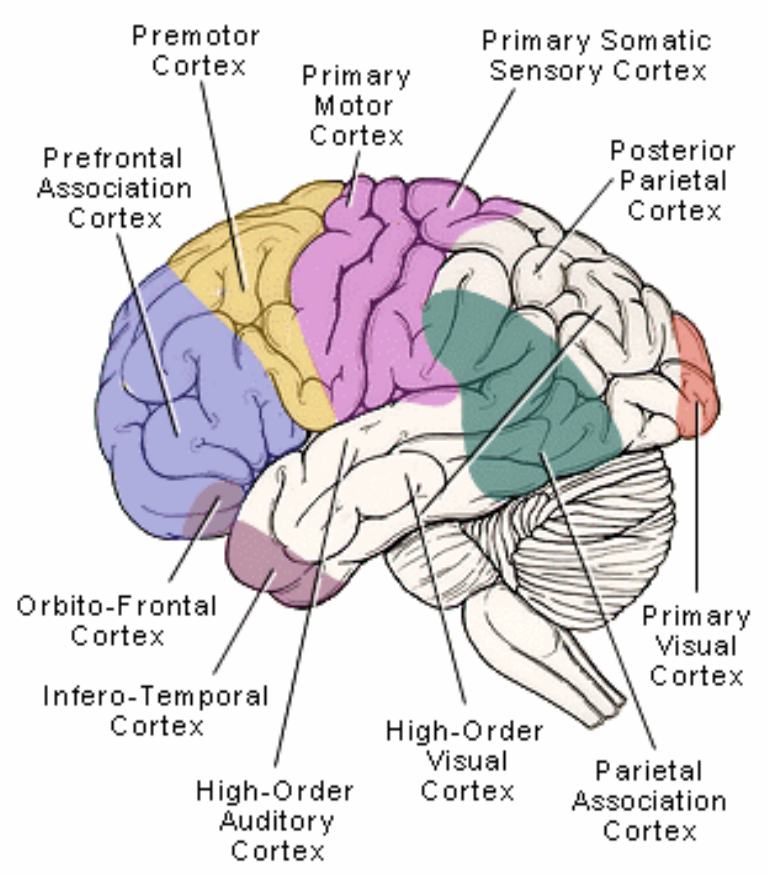
NEUROPHYSIOLOGY
80745-206-03

COURSE INFORMATION BOOKLET

FALL 2007



Department of Physiology and Biophysics
Howard University
College of Medicine
Washington, D.C.

NEUROPHYSIOLOGY
General Information and Course Schedule

STAFF

Course Coordinator:

Robert G. Canada, Ph.D.
Rm. 2508G Adams Bldg.
(202) 806-4521

Teaching Faculty:

Robert G. Canada, Ph.D.

James Gnadt, Ph.D.
Rm. 2309 Adams Bldg.
(202) 806-6305

Werner M. Graf, M.D., Ph.D.
Rm. 2420 Adams Bldg.
(202) 806-6330

Kebreten M. Manaye, M.D.
Rm. 2305 Adams Bldg.
(202) 806-6346

Richard M. Millis, Ph.D.
Rm. 329 Mudd Bldg.
(202) 806-5269

TEXTBOOKS

Optional:

Principles of Neural Science (4th Edition) by Eric R. Kandel, James H. Schwartz, and Thomas M. Jessell, ISBN 0838577016, McGraw-Hill Professional Publishing, 2000

Physiology (5th Edition) by Robert M. Berne, Matthew N. Levy, Bruce M. Koeppen and Bruce A. Stanton, ISBN 0-323-02225-1, Mosby, Inc., 2004

Essentials of Human Physiology, Sections I and VIII
http://www.lib.mcg.edu/edu/eshuphysio/program/default.htm

CLASS HOURS

Lectures: Tuesday and Thursday, 10:30 a.m. - 12:00 p.m., Rm. 2408 Adams Bldg.

Laboratory: Computer Simulation of Action Potentials
Tuesday, September 11, 2007
10:30 a.m. - 12:00 p.m., Rm. 226 Mudd Bldg.

EXAMINATION SCHEDULE AND EVALUATION CRITERIA

Criteria	Date	Composition	% Grade	Examiner
Exam 1	09/04/07	08/28 - 08/30	3.0%	Manaye
Exam 2	09/11/07	09/04 - 09/06	3.0%	Canada
Exam 3	09/18/07	09/11 - 09/13	3.0%	Canada
Exam 4	09/25/07	09/18 - 09/20	3.0%	Canada/Millis
Exam 5	10/02/07	09/25 - 09/27	3.0%	Millis
Exam 6	10/09/07	10/02 - 10/04	3.0%	Gnadt
Exam 7	10/16/07	10/09 - 10/11	3.0%	Graf
Midterm	**10/23/07**	**08/28 - 10/16**	**37.5%**	**Canada/Manaye/Millis Gnadt/Graf**
Exam 8	10/30/07	- 10/25	1.0%	Gnadt
Exam 9	11/06/07	10/30 - 11/01	3.0%	Graf/Canada
Exam 10	11/13/07	11/06 - 11/08	3.0%	Canada/Millis
Exam 11	11/20/07	11/13 - 11/15	3.0%	Manaye
Exam 12	11/27/07	11/20 -	1.0%	Manaye
Exam 13	12/04/07	11/27 - 11/29	3.0%	Manaye
Final	**12/11/07**	**10/25 - 12/04**	**27.5%**	**Canada/Manaye/Millis Gnadt/Graf**

Examination Format: Exams 1 - 13 will consist of 5 to 10 multiple-choice questions.
Each exam period will be for 15 min., from 10:30 am to 10:45 am

Midterm and Final examinations will consist of essay questions.
Each exam period will be for 120 min., from 10:30 am to 12:30 pm

Grade:

#	Numerical	Letter
1.	90 - 100	A
2.	80 - 89	B
3.	70 - 79	C
4.	60 - 69	D
5.	Below 60	F

The final course grade will be based on the total number of examination points. The number of points earned for a single exam, is the product of the numerical score and the grade percentage.

NEUROPHYSIOLOGY

FALL 2007; Course No. 80745-206-03

Tues. & Thurs.; 10:30 a.m. - 12:00 p.m.; J. L. Johnson Reading Room (Rm. 2408)

MONTH	DAY	DATE	TOPIC	LECTURER
AUGUST	Tue	28	Introduction to Neurophysiology	Manaye
	Thu	30	Functional Neuroanatomy	Manaye
SEPTEMBER	**Tue**	**04**	**EXAM 1**	**Manaye**
	Tue	04	Neurons	Canada
	Thu	06	Action Potentials	Canada
	Tue	**11**	**EXAM 2**	**Canada**
	Tue	11	Laboratory: Computer Simulation of Action Potentials	Canada
	Thu	13	Introduction to Synapses and the Neuromuscular Junction	Canada
	Tue	**18**	**EXAM 3**	**Canada**
	Tue	18	Physiology of Synapses	Canada
	Thu	20	Receptor Mechanisms	Millis
	Tue	**25**	**EXAM 4**	**Canada/Millis**
	Tue	25	Physiology of Spinal Cord	Millis
	Thu	27	Somatosensory & Pain Mechanisms	Millis
OCTOBER	**Tue**	**02**	**EXAM 5**	**Millis**
	Tue	02	Physiology of Vision I	Gnadt
	Thu	04	Physiology of Vision II	Gnadt
	Tue	**09**	**EXAM 6**	**Gnadt**
	Tue	09	Physiology of Audition	Graf
	Thu	11	Vestibular System	Graf
	Tue	**16**	**EXAM 7**	**Graf**
	Tue	16	Physiology of Taste and Smell	Canada
	Thu	18	Study Period	
	Tue	**23**	**MIDTERM EXAMINATION**	
	Thu	25	Cranial Nerves	Gnadt
	Tue	**30**	**EXAM 8**	**Gnadt**
	Tue	30	Motor Control Systems	Graf

MONTH	DAY	DATE	TOPIC	LECTURER
NOVEMBER	Thu	01	Cerebellum	Canada
	Tue	**06**	**EXAM 9**	**Graf/Canada**
	Tue	06	Basal Ganglia	Canada
	Thu	08	Autonomic Nervous System	Millis
	Tue	**13**	**EXAM 10**	**Canada/Millis**
	Tue	13	Limbic System	Manaye
	Thu	15	Reticular Formation and Physiology of Sleep	Manaye
	Tue	**20**	**EXAM 11**	**Manaye**
	Tue	20	Higher Cortical Functions	Manaye
	Thu	**22**	**THANKSGIVING DAY – HOLIDAY**	
	Tue	**27**	**EXAM 12**	**Manaye**
	Tue	27	Memory and Learning Manaye	
	Thu	29	Aging of the CNS I	Manaye
DECEMBER	**Tue**	**04**	**EXAM 13**	**Manaye**
	Tue	04	Aging of the CNS II	Manaye
	Thu	06	Study Period	
	Tue	**11**	**FINAL EXAMINATION**	

HOWARD UNIVERSITY
STATEMENT ON ADA PROCEDURES

Howard University is committed to providing an educational environment that is accessible to all students. In accordance with this policy, students in need of accommodations due to a disability should contact the Office of the Dean for Special Student Services (ODSSS) and provide documentation of disability and determination of reasonable accommodations immediately after admission to the University, or as soon thereafter as possible. The Office of Special Student Services is located in Suite 725 of the Howard Center and may be reached at (202) 238-2420.