

NEUROENDOCRINOLOGY  
PRESENT SEMESTER  
BIO 5453

TEXT: An introduction to Neuroendocrinology by R.E. Brown

On-Line Texts: Links provided on WebCT course site, e.g., Endotext.

OBJECTIVE: Gain in depth of knowledge of mammalian neuroendocrine systems

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OFFICE HOURS: Arranged through **WebCT Mailbox: [webct.utsa.edu](mailto:webct.utsa.edu)**

**NOTE FOR ON LINE SECTION (No attendance required):** All course materials and performance assessments will be completed and administered entirely on-line through the world wide web internet and via WebCT software of UTSA ([webct.utsa.edu](http://webct.utsa.edu)). The introductory lecture on the syllabus and all lectures will be recorded and posted on the WebCT Homepage as streaming video. All performance assessments, i.e., exams, will be administered on line beginning the date mentioned on the syllabus; an email will be sent via WebCT Mailbox to all enrolled students notifying them of availability and end date/time for completion of on line assessment materials. Schedules for performance assessments will also be posted on the Calendar on the WebCT Homepage. All lecture presentations will be posted, e.g., Powerpoint and pdf slides, and pdf handouts for printing, on the WebCT course site. All correspondence will be conducted via the WebCT Mailbox function on the course site. Grades are posted automatically upon completion of performance assessment materials. Final grades are posted subsequent to the administration of the final exam.

WEEK	TOPIC	CHAPTER
		Brown Nemeroff
		Lecture/Review
1	Introduction; Gene Expression Regulation	1-2
2	Endocrine Glands and Hormones	3-4
3	Hypothalamus and Pituitary Portal System; Pituitary Gland	11
<b>3</b>	<b>Test 1 On-Line</b>	12
4	Neuropeptides I: Molecular Neuroendocrinology	5-6 6
5	Neuropeptides II: Molecular Neuroendocrinology	7-8
6	Neuroendocrine Regulation I: Neurotransmitters	9 11
7	Neuroendocrine Regulation II: Cellular Neuroend	10
<b>7</b>	<b>Test 2 On-Line</b>	8,9,14 2-3
8	Neuroendocrine Regulation III: Steroids	WebCT Course Site
9	Neuropeptide Receptor Mechanisms	
10	Methods in Neuroendocrinology 1	
11	Methods in Neuroendocrinology 2	
<b>11</b>	<b>Last day to drop (withdraw) with automatic W</b>	
<b>11</b>	<b>Test 3 On-Line</b>	
12	HPT; HPA Axes	6,7,9,12,14 7 - 13
13	HPG Axis Introduction; Steroidogenesis	6,7,9,12,14 7 - 13
13	HPG Axis Male	
14	Menstrual Cycle of HPG Axis	WebCT Course Site
14	Estrous Cycle HPG Axis	WebCT Course Site
<b>14</b>	<b>Test 4 On-Line</b>	
15-16	Molecular Neuroendocrinology of HPG Axis	WebCT Course Site
<b>FINALS WEEK</b>	<b>Test 5 (SEE WebCT CALENDAR)</b>	

Grading Tests 20ea. X 5 = 100%

**OTHER USEFUL TEXTS:**

Neuroendocrinology by C.B. Nemeroff

Mammalian Neuroendocrinology by Paul V. Malven