Create a Perusal account and enteryour course code DREM-63E89 upon
registration
Assignments posted on course schedule are due at the beginning of the next class
unless otherwise indicated Homework turned in after the deadline will not be
accepted unless anargements are made before the homework is late.
See schedule for when honework is due. Permission to hand in HW via e mail may
be an anged in advance and will not be accepted without prior an angements.
Honework and reading assignments (other than from the text book) will be posted on
blackboard
Attend reuroscience seminars online at http://reuroscies.infonih.gov/ or on campus.
Checkwith the instructor to ask if the seminar will count as a neuroscience seminar).
A write up about a seminar will substitute for one HW assignment (peer reviews of
selected articles). Up to 3 HW assignments can be substituted by a seminar write

		literature relevant to these topics. Critical thinking skills and experimental design will be taught through discussion of original research papers that relate to the lecture topic.
		Presequisite: BIOL B417, CHEMF470 crequivalent instruction in basic cell and molecular biology and nervous system function
œ	Codinse Goals:	Students should leQ L / % r ((6 6
		analysis of peer reviewed literature in neurochemistry and in written and oral communication of the strengths and weaknesses of hypothesis divervese architecture.
		area of neurochemistry.
-	Student Learning Outcomes	area of neurochemistry. Written homework, group project and final project assignments will be used to assess Familiarity with current literature related to functions and diseases associated with neurotransmitter/neuromodulator ¿Abi
-	Student Learning Outcomes	area of neurochemistry. Wittenhonework, group project and final project assignments will be used to assess Familiarity with current literature related to functions and diseases associated with neurotransmitter/neuromodulator ¿Abi
-	Student Learning Outcomes	area of neucohemisty, Or Wittenhonework, group project and final project assignments will be used to assess Familiarity with current literature related to functions and diseases associated with neurotransmitter/neuromodulator ¿Abi Detailed mechanisms of inter cellular communication in the CNS and the ability to design experiments to test hypotheses regarding these mechanisms and the physiological functions related to these processes. Swritesis

Receptor subtypes and effectors Termination of effect Basic neurochemical anatomy of transmitter systems Description via astrony frammitter systems

(Homework) Students will be guided by the instructor through critical evaluation of peep reviewed papers to achieve the following objectives:

Apply knowledge of neurochemical transmission to interpretation of peer reviewed papers.

Apply knowledge of neurochemistry and experimental design to critically evaluate original research papers and literature reviews.

Develop critical thinking skills and cal and written communication styles to defend one's own interpretation of the data

Knowhow to prepare comments for authors to be submitted in response to an invitation by a journal editor to review a manuscript.

(Group project assignment) Students will gain practice with oral presentations of original research towards the following objectives: Become

Develop effestiv ° teshniau s for cual presentati3 on of original re sea

Final Project

For the final project each student will develop an original theoretical model to answer a question he/she finds to be significant and related to intercellular communication in the CNS. Based on the proposed model students will formulate a set of hypotheses and propose a set of experiments to test one of these hypotheses. The student will describe expected and alternative results and discuss interpretation of both expected and unexpected results. Learning will be assessed from the credibility of the model proposed, ability to assess the rigor of background literature related to the model, ability to identify weaknesses and strengths of prior work and ability to defend how the proposed model improves upon weaknesses and builds upon strengths of prior work. Learning will also be assessed from the student's ability to discuss and interpret expected and unexpected results.