

课程大纲

COURSE SYLLABUS

1.	课程代码/名称 Course Code/Title	行为神经科学 Behavioral neuroscience
2.	课程性质 Compulsory/Elective	专业选修课 Major Elective Courses
3.	课程学分/学时 Course Credit/Hours	3 学分/48 学时 3 credits/ 48 hours
4.	授课语言 Teaching Language	中英双语 English & Chinese
5.	授课教师 Instructor(s)	陈小菁 Xiaojing Chen
6.	是否面向本科生开放 Open to undergraduates or not	否 No
7.	先修要求 Pre-requisites	普通生物学、神经生物学 General biology
8.	教学目标 Course Objectives	
	<p>通过对行为神经科学这门课程的学习，学生应该能够系统的了解包括人类在内的动物个体的各种行为、心理、动机背后的神经生理机制；这种机制包括基因、分子、细胞、网络、系统等多水平。除了对行为神经科学这一学科的学习和研究外，本课程还可以帮助学生了解自身是如何思考和行为，为各种心理困惑提供应对机制。</p> <p>After finishing this course, students can systematically understand the neural mechanisms underlying all kinds of animals' behaviours, thoughts and motivations. The levels of mechanisms will include genes, molecules, cells, neural networks, system, etc. Besides the study of behavioural neuroscience itself, this course will also provide students with knowledge about human's internal mental processes and help them to deal with psychological difficulties by themselves.</p>	
9.	教学方法 Teaching Methods	
	<p>(如面向本科生开放，请注明区分内容。 If the course is open to undergraduates, please indicate the difference.)</p> <p>本课程的教学方法包括课堂讲授、文献学习与讨论等。</p> <p>Teaching methods of this course include lectures, literature study and discussion, etc.</p>	
10.	教学内容 Course Contents	
	(如面向本科生开放，请注明区分内容。 If the course is open to undergraduates, please indicate the difference.)	
	Section 1	What is Behavioral Neuroscience? _____
	Section 2	The Organization and Communication of the Nervous System
	Section 3	Methods and Ethics of Research -
	Section 4	Vision and Visual perception Drugs, Addiction and Reward
	Section 5	Hearing and Language Motivation and the Regulation of Internal States
	Section 6	Sleep and Biological Rhythms The Biology of Sex and Reproductive Behavior

Section 7	The Biology of Sex and Reproductive Behavior Emotion and health
Section 8	Emotion and health Vision and Visual perception
Section 9	Ingestive Behavior The Body Senses and Movement
Section 10	Drugs, Addiction and Reward Hearing and Language
Section 11	Learning and Memory Learning and Memory
Section 12	Psychological Disorders Intelligence and Cognitive Functioning
Section 13	Intelligence and Cognitive Psychological Disorders
Section 14	Sleep and Biological Rhythms

11. 课程考核
Course Assessment

(① 考核形式 Form of examination; ②. 分数构成 grading policy; ③ 如面向本科生开放, 请注明区分内容。
If the course is open to undergraduates, please indicate the difference.)

课堂出勤 (Attendance) : ~~2~~30%

文献学习和讨论课堂表现 (Class performance) : 30%

期末闭卷考试 (Final Exam) : ~~50~~40%

12. 教材及其它参考资料
Textbook and Supplementary Readings

Textbook:

Brain & Behavior: An Introduction to Behavioral Neuroscience, 5th Ed. by Bob Garrett, Gerald Hough

Supplementary Readings:

Foundations of Behavioral Neuroscience: International Edition (Neil R. Carlson, University of Massachusetts)