COURSE DETAIL

BIOLOGICAL PSYCHOLOGY
Country Australia
Host Institution University of Melbourne
Program(s) University of Melbourne
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Psychology
UCEAP Course Number 122
UCEAP Course Suffix
UCEAP Official Title BIOLOGICAL PSYCHOLOGY
UCEAP Transcript Title BIOLOGICAL PSYCH
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course examines the relationship between brain mechanisms and behavior. The course develops an appreciation of the neurobiological basis of psychological function and dysfunction via two approaches. The first emphasizes a top-down method that links psychological functions to their biological substrates. Neuroscientific research techniques and what they can reveal about psychological function are emphasized. These techniques are presented within an historical context, beginning with electroencephalography (EEG) and finishing with functional magnetic resonance imaging (fMRI). The second approach emphasizes a bottom-up approach including the topics of brain development, neurons and neural circuits, neurotransmission and neurotransmitter substances, and the structurofunctional properties of selected brain regions. Neurobiological principles are illustrated using conditions with abnormal neuronal function. A quantitative methods component is integrated into the lecture, tutorial and assessment structure of this course. It provides an understanding of, and practical experience with, the appropriate experimental design and statistical analysis techniques used to evaluate hypotheses in Biological Psychology.

Language(s) of Instruction
English

Host Institution Course Number
PSYC20006

Host Institution Course Title
BIOLOGICAL PSYCHOLOGY

Host Institution Course Details
https://handbook.unimelb.edu.au/view/2012/PSYC20006

Host Institution Campus
Parkville

Host Institution Faculty

Host Institution Degree

Host Institution Department
Psychology

Course Last Reviewed
2024-2025

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